



Master of ICT Research

CRICOS CODE

110690J (NSW),
110649K (VIC)

AQF LEVEL

Level 9

DURATION

Full-time:
2 Years
(4 Trimesters)

INTAKES

March 2023
July 2023

LOCATION

Sydney
Melbourne

STUDY MODE

Face-to-Face
on Campus

TUITION FEES

AUD11,000
per trimester

Become a knowledge creator

Develop first-rate analytical skills so you can create original knowledge and drive innovation. Address current business challenges through in-depth research.

COURSE OVERVIEW

Lead through knowledge creation

Researchers create original knowledge, which drives the digital economy.

The Master of ICT Research teaches you the fundamentals of knowledge creation. The skills you gain will support you throughout your career.

This course will give you a broad grounding in networking, data analytics, telecommunication engineering and the Internet of Things.

Then you'll choose one area to focus on in your research and dissertation. You'll learn to solve complex problems with innovative ideas.

Your research will contribute to the fourth industrial revolution. You'll become a subject matter expert with the chance of being published or speaking at conferences presenting your research.

ACCREDITATION

The Master of ICT Research is accredited by

- TEQSA Higher Education Standards Framework
- Australian Quality Framework (AQF) Level 9

CAREER PATHS

Graduates of this course will work in ICT and related industries, including:

- Data Analyst
- Data Management
- Network Analyst
- Cyber Security Analyst
- Information Security Analyst
- Forensic Computer Analyst

You can find work in software engineering companies like Google, AWS, KPMG, Defence, Huawei, Ericsson, Telstra, and Optus. Or find research roles within the public sector or higher education.

COURSE STRUCTURE

The economy of the future relies on original knowledge creation. Research is an important tool to assess what's working and what's not.

This course produces graduates with a blend of in-demand IT skills. With these skills, you'll be able to improve decision-making in business. Your thesis will rely on

- statistics and probabilistic reasoning
- research design
- innovation and leadership in research

Each unit consists of 20 credit points. A full-time study load is 60 credit points per trimester.

MN404 and MN405 are available for students who need to supplement their undergraduate degree program. Students who have gaps in their undergraduate program will need to undertake

CORE UNITS	
MR501	Research Skills
MR502	Quant & Qual Research Techniques
MR601	Research Proposal & Literature Review
MR603	Research Thesis 1 (prerequisite MR601)
MR604	Research Thesis 2 (prerequisite MR603)

ADVANCED ELECTIVES	
Master of Data Analytics Advanced Electives Choose 1	MDA522 Artificial Intelligence (MDA512)
	MDA611 Predictive Analytics (MDA511)
	MDA621 Big Data Analytics and Visualization (MDA512)
Master of Networking Advanced Electives Choose 1	MN623 Cyber Security and Analytics (MN502)
	MN621 Advanced Network Design
	MN612 Enterprise Architecture
Master of Engineering Advanced Electives Choose 1	ME602 Mobile and Satellite Communication Systems (ME601)
	ME693 Software Defined Radio Communication (ME502)
	ME606 Digital Signal Processing (ME502)

ELECTIVE UNITS	
Master of Data Analytics Course Electives Choose 2	MDA511 Statistical Methods
	MDA512 Data Science
	MDA522 Artificial Intelligence
Master of Networking Course Electives Choose 2	MN502 Overview of Network Security
	MN622 Software Defined Networks
	MN604 IT Security Management
Master of Engineering Course Electives Choose 2	ME502 Digital Communications
	ME503 Telecommunication System Engineering (ME502)
	ME601 Communication Modelling and Simulations



ACADEMIC REQUIREMENTS

The academic requirements for admission to this course are:

- A completed Australian Bachelor's degree or equivalent in any ICT discipline
- Other qualifications and experience may, upon application by the student, be deemed equivalent to the coursework units by the Academic Board of the Institute.

ENGLISH LANGUAGE REQUIREMENTS

IELTS Academic, Overall, 6.5 with no band less than 6.0 or equivalent.

LEARN MORE

For detailed information about the course, please visit:

> www.mit.edu.au/study-with-us/programs/master-ICT-research

> www.mit.edu.au