Master of Information Technology (Professional)

Postgraduate

Course overview

The Master of Information Technology (Professional) is designed to extend the specialised information technology skills obtained in the Master of Information Technology by providing students with the opportunity to undertake a period of industry-based learning or a research project under the supervision of our internationally-recognised research staff.

You will develop expert knowledge of the technical aspects of information technology as well as in-depth skills in your chosen area of specialisation.

This course has a strong IT industry focus and empowers students to apply the acquired knowledge and skills towards professional practice and enables them to create innovative IT solutions to solve real-world problems. Students will develop teamwork and leadership skills through close mentorship during industry projects and engagement in researching cutting edge IT solutions.

Why study IT at Deakin?

Deakin University is ranked in the top 1% of universities worldwide according to Shanghai Rankings World University Rankings 2019. This rating indicates world-class facilities, research and teaching, as well as employability, innovation and inclusiveness.

Our Master of Information Technology (Professional) is designed with input from industry representatives, leading IT companies, government departments and highly respected industry bodies to ensure that our graduates have the skills employers' value.

Our research is firmly focused on the future needs of industry. We understand the emerging importance of service-oriented, cyberphysical and intelligent systems which will have a major impact on business, industry and government over the next 10 years and we are focused on building the capability of graduates for employment in this exciting intersection of cross-disciplinary fields.

Course structure

Master of Information Technology (Professional)

Location: Melbourne Burwood Campus B and Cloud Campus C
Duration: 2 years full-time study or part time equivalent
Intake: March (Trimester 1), July (Trimester 2) and November (Trimester 3)
Deakin code: S779

To complete the Master of Information Technology (Professional), students must attain 16 credit points which must include the following four tiers:

- Part A: Fundamental Information Technology Studies (4cp)
- Part B: Mastery Information Technology Studies (4cp)
- Part C: Specialist Information Technology Studies (4cp)
- Part D: Professional Studies (4cp)

The four tiers comprise the following:

- Seven core units (7cp)
- One SIT elective unit (1cp)
- A four credit point specialisation (4cp)
- Four credit points of professional units (4cp)

You will also complete one zero credit point unit relating to academic integrity.

Please visit **deakin.edu.au/handbook** for more information about this course, including further details of the structure and units involved.

Master of Information Technology

Deakin also offers a Master of Information Technology. Depending on your experience, this degree comprises 8, 12 or 16 credit points. The Master of Information Technology includes a Foundational Informational Technology Studies stream and is suitable for those without and information technology background.

Visit **deakin.edu.au/course/S776** for further details.

deakin.edu.au/course/S779

Specialisations

Cyber security

Develop skills in securing data, communications and infrastructure as well as investigating, analysing and providing solutions to computer crime. Enhance your skills in problem solving, communication and technical capabilities related to digital security and the legal, regulatory and ethical contexts in which these skills are used.

Data science

The data science specialisation has been designed to provide students the opportunity to develop technical skills in key areas of data science and data analytics.

Emerging technologies for supply chain

Supply chains create the cost efficiencies necessary for company success and are their efficient management is crucial to product safety, food security and economic sustainability. This specialisation is designed to provide students the opportunity to undertake study and develop technical skills in key areas relevant to new technologies used in the management of supply chain logistics, these include simulation and modelling, real-world analytics, optimisation, machine learning and blockchain technologies.

Networking and cloud technologies

Learn to take advantage of modern networking and cloud technologies in the development, deployment, and scaling of enterprise solutions.

Software and services development

Enhance your theoretical and practical skills in current trends in the analysis, design and implementation of complex and large-scale software systems. Designed with input from industry leaders, there is a strong focus on the development of high quality software using methodologies, tools, techniques and management principles relevant to industry. There is emphasis on the development of web-based and distributed applications and the use and development of open source software.

Virtual reality

The Virtual Reality (VR) specialisation provides you with an understanding of the skills required to replicate life-like physical environments or portray a fictional artificial world. You will gain expertise in designing collaborative virtual and augmented reality that can facilitate realistic and immersive experiences for users.

Course accreditation

The Master of Information Technology (Professional) is accredited by the Australian Computer Society (ACS), providing international recognition and allowing graduates to be eligible for professional membership of the ACS.

Career opportunities

A career in IT has endless possibilities. In today's IT job market, multi-skilling, multi-tasking and cross-skilling are highly valued. Our graduates are well-rounded IT professionals with the ability to meet the future needs of this ever-evolving, fast-paced industry.

As a Master of Information Technology (Professional) graduate, you may find employment as a business analyst, ICT manager, database specialist, security analyst, solutions architect, software developer, technology consultant, security manager, VR/AR developer or UX designer.

In addition to the ICT industry, our graduates find employment across a wide range of industry sectors such as banking and finance, energy, health, retail, education, defence, sport, transport and government.

Interested in applying?

Entry requirements

Entry will be based on performance in:

- Graduate Certificate or higher in a related discipline OR
- Bachelor degree or higher in a related discipline OR
- Bachelor degree or higher in any discipline AND two years relevant work experience OR
- evidence of academic capability judged to be equivalent.

How to apply

Applications can be made online via **deakin.edu.au/apply**.

For more information about entry requirements, submitting an application or the application process, please visit **deakin.edu.au/courses/how-to-apply.**

deakin.edu.au/course/S779

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