

Master of Science in Information Technology

Description: The MSc(IT) is a professional qualification in Information Technology, designed to provide candidates with appropriate practical understanding, skills and knowledge for managing IT use, change and development. The primary aim is to allow IT professionals an opportunity for professional upgrading or an extension of their qualifications and experience.

Course Structure: The degree may be completed in one of two ways:

- Coursework: Students complete 24 points of advanced postgraduate units covering a wide range of topics of current concern in the industry.
- Research: Students complete 12 points of coursework units and a 12-point dissertation.

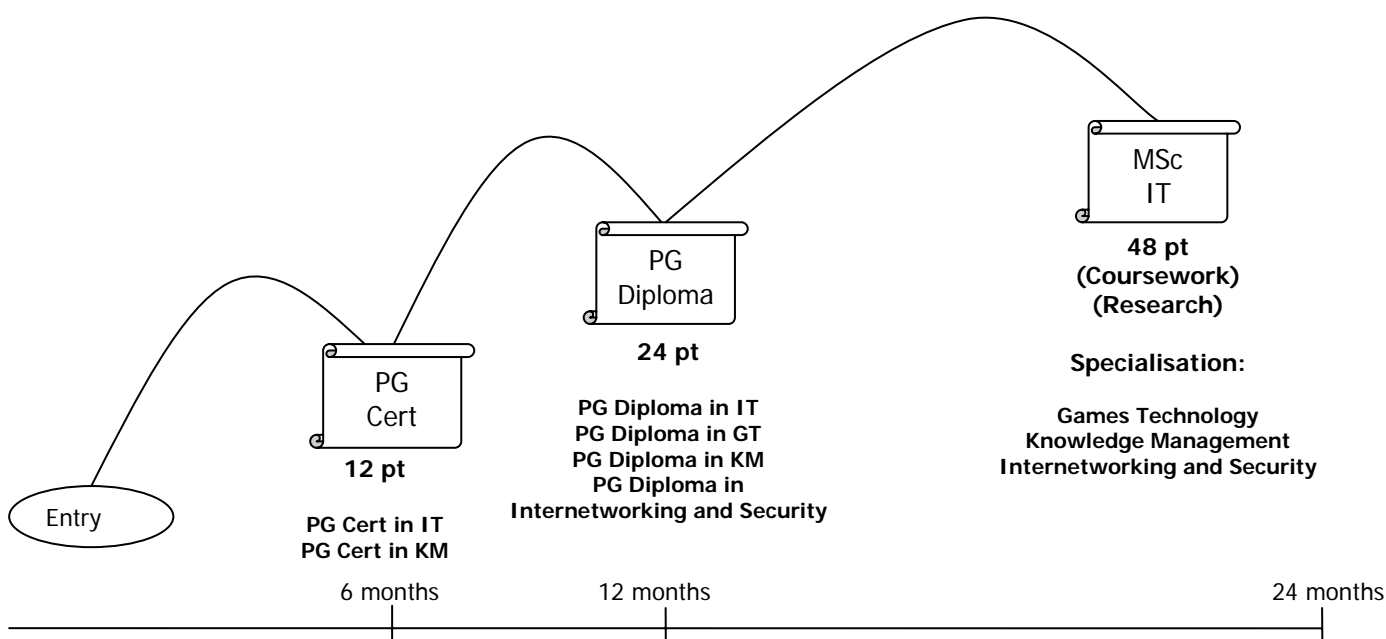
All students complete an additional 24 points of coursework units. It is possible to select these units from one of several lists, leading to a named specialisation within the MSc of Games Technology, Internetworking and Security, or Knowledge Management.

Duration: 1 to 2 years full-time.

Admission: Applicants are selected on the basis of at least one of the following criteria:

- A Graduate Diploma in IT, or a three-year non IT degree plus approved Diploma in IT
- An approved Postgraduate Diploma in IT
- Any non-IT Honours degree (note that this provides entry to the non-specialisation or Internetworking and Security specialisation only)
- Any non-IT Masters
- Five or more years relevant work experience

Contact: Murdoch International Tel: +61 8 9360 7539 Email: internat@murdoch.edu.au
CRICOS Provider Code: 00125J



Postgraduate Certificate in Information Technology

Core Units — 4 points

ICT421 IT Professional Practice

Specified Electives — 8 points

Students may select up to 8 points from any 200, 300 or 400-level units offered by the School of Information Technology with permission of the Program Chair. Students who intend to advance to the Postgraduate Diploma in Information Technology should note that no more than 8 points of 200 or 300-level units can be credited towards completion of a Postgraduate Diploma.

Postgraduate Certificate in Knowledge Management

Course Structure — 12 points

Students who intend to advance to the Postgraduate Diploma should note that no more than 8 points of 200/300-level units can be credited towards completion of a Postgraduate Diploma.

Core Units — 8 points

ICT556 Knowledge Management Techniques

ICT554 Knowledge Management in Organisations

Specified Electives — 4 points

Select from the following:

ICT219 Intelligent Systems

ICT327 Management of IT Projects

ICT334 Multimedia Databases

ICT325 Human-Computer Interaction

ICT329 Organisational Informatics

ICT326 Information Systems Management

ICT421 IT Professional Practice

Postgraduate Diploma in Information Technology

Course Structure — 24 points

Core Units — 16 points

ICT421 IT Professional Practice

ICT457 Management of IT Security

ICT523 Data Communications Strategies

ICT6141 Multimedia Systems

Specified Electives — 8 points

Students may select up to 8 points from any 200, 300 or 400-level units offered by the School of Information Technology with permission of the Program Chair. Not more than 8 points of 200 or 300 level units can be credited towards completion of a Postgraduate Diploma.

Postgraduate Diploma in Games Technology

Course Structure — 24 points

ICT215 Computer Graphics Principles and Programming

ICT219 Intelligent Systems

ICT507 Games Design and Programming

ICT509 Software for Games Development

ICT511 Advanced Games Design and Programming

ICT512 Virtual Environments for Games and Simulations

Postgraduate Diploma in Internetworking and Security

Course Structure — 24 points

Core Units — 12 points

ICT546 Local Area Network Design and Implementation

ICT535 Advanced Business Data Communications

ICT562 Network Security

Specified Electives — 12 points

Select from the following:

ICT618 Information Technology Project Management

ICT568 Wide Area

ICT563 Network Switching

ICT566 Building and Managing Scalable Networks

ICT564 Wireless Networks

ICT339 Computer Security

ICT421 IT Professional Practice

ICT338 Computer Systems and Network Management

Postgraduate Diploma in Knowledge Management

Note: No more than 8 points of 200/300-level units can be credited towards completion of a Postgraduate Diploma.

Course Structure — 24 points

Core Units — 16 points

ICT556 Knowledge Management Techniques

ICT554 Knowledge Management in Organisations

ICT555 Knowledge Management Implementation

ICT442 Advanced Databases

Specified Electives — 8 points

Select from the following:

ICT219 Intelligent Systems

ICT327 Management of IT Projects

ICT334 Multimedia Databases

ICT325 Human-Computer Interaction

ICT329 Organisational Informatics

ICT326 Information Systems Management

ICT421 IT Professional Practice

Master of Science in Information Technology MSc(IT) (Coursework)

Course Structure — 48 points

Core Units — 24 points

ICT616 Data Resources Management

ICT618 Information Technology Project Management

ICT650 Information Technology Research Methodologies

ICT612 Human Factors in Information Technology

ICT619 Intelligent Systems

ICT622 Information Technology Strategy

Specified Electives — 24 points

Complete all units from one of the following lists. No more than 8 points can be taken at 200/300-level.

No Specialisation

ICT421 IT Professional Practice

ICT514 Multimedia Systems

ICT457 Management of IT Security

ICT523 Data Communications Strategies

plus 8 points selected from any 200/300/400-level unit offered by the School with permission of the Program Chair.

Games Technology Specialisation

ICT215 Computer Graphics Principles and Programming

ICT219 Intelligent Systems

ICT507 Games Design and Programming

ICT509 Software for Games Development

ICT511 Advanced Games Design and Programming

ICT512 Virtual Environments for Games and Simulations

Knowledge Management Specialisation

ICT556 Knowledge Management Techniques

ICT554 Knowledge Management in Organisations

ICT555 Knowledge Management Implementation

ICT442 Advanced Databases:

plus two of the following:

ICT219 Intelligent Systems

ICT325 Human-Computer Interaction

ICT326 Information Systems Management

ICT327 Management of IT Projects

ICT329 Organisational Informatics

ICT334 Multimedia Databases

Internetworking and Security Specialisation

ICT546 Local Area Network Design and Implementation

ICT535 Advanced Business Data Communications

ICT562 Network Security

plus three of the following:

ICT568 Wide Area Networks

ICT563 Network Switching

ICT566 Building and Managing Scalable Networks

ICT564 Wireless Networks

ICT618 Information Technology Project Management

ICT421 IT Professional Practice

ICT338 Computer Systems and Network Management

ICT339 Computer Security

MSc(IT) (Research)

Course Structure — 48 points

Same as above except student has to complete a 12 point research unit:

ICT678 Information Technology Research Dissertation

In lieu of

ICT612 Human Factors in Information Technology

ICT619 Intelligent Systems

ICT622 Information Technology Strategy