



# Master of Science in Information Systems & Technology

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Education to take you places

## Background



Informed by the contemporary and emerging Information Technology (IT) paradigms in business organizations, this program addresses the extensive industry needs for highly qualified, competent and skilled IT graduates in specialist areas by providing a progression path to a higher degree qualification. The degree qualification gives students exposure to advanced skills in areas such as Business Information Systems, Software Development, Telecommunications & Mobile Computing and Internet Security & Cybercrime.



## Program Learning Outcomes

1. Formulate Information System Technology solutions from multidisciplinary perspectives
2. Utilize appropriate skills in the management of Information Technology Systems
3. Conceptualize, design and conduct an Information System research project

**CORE COURSES:**

MIS 6010	IT Infrastructure
MIS 6020	Application Domains of Information Technology
MIS 6030	Applications Development
MIS 6040	Networking and Wireless Communications
MIS 6050	Database Development Technology
MIS 6060	Distributed Computing & Internet Technology
MIS 6070	Web-Based Information Systems
MIS 6120	Mobile Computing
MIS 6130	Information Systems Security, Control and Audit
MIS 6140	Information Systems Strategy and Management
MIS 6160	IT Project Management
MIS 6220	Research Methods

**CONCENTRATIONS:**

Choose one of the following concentrations.

**Business Information Systems**

BIS 6120	Knowledge Management Systems
BIS 6130	Management and Economics of E-Business
BIS 6150	Enterprise Systems
TMC 6130	Cloud Computing and Virtualization
MIS 6851	Project I (Information Systems)
MIS 6852	Project II (Information Systems)

**Software Engineering**

SWE 6110	Principles of Software Engineering
SWE 6120	Human Computer Interface
SWE 6130	Mobile Applications Development
SWE 6140	Group Work in Large Scale Software Development
MIS 6851	Project I (Information Systems)
MIS 6852	Project II (Information Systems)

**Internet Security and Cybercrime**

ISC 6110	Network Security and Management
ISC 6120	Advanced Information Systems Security
ISC 6130	Computer Forensics and Cybercrime
ISC 6140	IT Security Techniques and Incident Handling
MIS 6851	Project I (Information Systems)
MIS 6852	Project II (Information Systems)

## Other requirements

**Students with a first degree in sciences, engineering or business studies with limited background in Information Technology or Computing will be required to take the survey courses listed for this program.**

MIS	5010	Data Structures and Algorithms
MIS	5020	Fundamentals of Programming
MIS	5030	Concepts of Operating Systems
BUS	5080	Survey of Information Systems
BUS	5090	Survey of Business Statistics
BUS	5110	Computer Applications Skills

## Career options

- ICT Director
- Information Systems Manager
- Mobile Applications Developer
- ICT Consultant
- IT Systems Researcher
- IT Entrepreneur
- ICT Security Specialist/Director/Consultant

### Contacts:

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