

# MSc Computing.

## **PATHWAYS:**

**> IT Security & Networking**

**> Mobile & Web Development**

**> IT Management in Business**

The MSc in Computing provides students with an opportunity to develop generic computing skills that can be applied in all walks of life as well as the skills and understanding needed to develop software systems.

Students will develop transferable skills in evaluation of ideas and concepts, effective communication, synthesis of ideas and become reflective practitioners. The aims of the course are to provide an opportunity for the students to plan, undertake and evaluate a substantial computing Project; to develop the students' critical evaluation, communication and self-management skills to a level appropriate for post-graduate students; and to encourage and enable the students to become reflective and research-aware practitioners.

# MSc Computing.



## MODULES

### COMPULSORY ALL PATHWAYS

Masters Project  
Critical Analysis  
IT Project Management

### IT SECURITY & NETWORKING

COMPULSORY  
Digital Security  
Network Communication & Routing

### OPTIONAL

Advanced Topics in IT Security  
Network Operations & Management  
Ethical Hacking  
Wireless Networks & Communications  
Distributed Systems  
Student Initiated Module

### MOBILE & WEB DEVELOPMENT

#### COMPULSORY

Web Application Development  
Mobile Application Development

#### OPTIONAL

e-Marketing or  
Digital Marketing  
Advanced Topics in User Experience  
UX Away from the Desktop  
User - Centred System Design & Evaluation  
Wireless Networks & Communications  
Agile Systems Development  
Student Initiated Module

### IT MANAGEMENT IN BUSINESS

#### COMPULSORY

Digital Marketing OR  
e-Marketing  
Enterprise Data Management

#### OPTIONAL

Network Operations & Management  
Information Security Management  
Student Initiated Module  
Leadership and Management  
Entrepreneurship Theory and Practice  
ERP Systems  
Advanced Topics in User Experience  
Exploratory Data Analysis

*The University reserves the right to make amendments to programmes in order to improve the quality of learning content and outcomes.*

## CAREER OPTIONS

This course, building on the intellectual skills of a computing or technology-related degree, enhances students' employment prospects in the IT field, and further develops the skills they obtained in their undergraduate degree. The skills acquired can lead to a range of careers in computing specialisations that are in high demand even outside the technology sector, such as networks and IT security.

## ENTRY REQUIREMENTS

- > Bachelors degree (Lower Second Class) or equivalent in a computing or closely-related discipline  
OR
- > Substantial industrial experience or other professional qualifications deemed by the University to be equivalent to the above
- > IELTS 6.5 or equivalent (if applicable).