Master of Science (Information Assurance)

MQA/SWA0445

"TECHNOLOGY TRUST IS A GOOD THING,
BUT SECURITY CONTROL IS BETTER"

PROGRAMME OVERVIEW

Master of Science (Information Assurance)

is a programme that emphasises on the practice of assuring information and managing risks related to the use, processing, storage, and transmission of information. While focused dominantly on information in digital form, the full range of Information Assurance encompasses not only digital but also analogue or physical form. Information assurance as a field has grown from the practice of information security, which in turn grew out of practices and procedures of computer security. Information Assurance also is best thought of as a superset of information security, integrating people, technology and operations to establish security and protection across multiple layers and dimensions. This programme will be the integration of digital forensic science, security engineering, IT risk management of management systems and standard compliance towards a safe and secured information society against emerging threats.

ENTRY REQUIREMENTS

A Bachelor's Degree in Computer Science, or SoftwareEngineering, or Information Technology, orEngineering, or Math, or Science with good honours from Universiti Teknologi Malaysia or any other institution of higher learning recognised by the Senate; OR

A qualification equivalent to a Bachelor's Degree as per above area and experience in the relevant field recognised by the Senate.

Additional requirement for International Applicants
An English Certificate of IELTS with the minimum band of 6.0 OR TOEFL with the minimum score of 550

CORE COURSES

- E-Crime Investigation and Incidence Response Management
- Access Control and Perimeter Protection
- Enterprise Information Assurance
- Cyber Law and Ethical Issues
- Information Engineering
- Data Quality Assurance
- Research Methodology
- 1 University General Course

ELECTIVE COURSES

- Applied Cryptography
- Enterprise Risk Management
- Issues in Information Assurance
- Wireless Infrastructure Security
- Biometrics in Information Assurance
- Principles of Business Continuity Management
- Penetration Testing and Protection Mechanism
- Critical Infrastructure Security and Cyber Threats
- Software Development and Vulnerability Analysis
- Information Assurance Architecture and Technologies

MASTER PROJECT

- Master Project 1
- Master Project 2

CAREER OPPORTUNITIES

Graduates of this programme were active employment in cybersecurity fields. It will prepare you for roles such as:
- Risk Analyst
- Ethical Hacker
- Cryptographer
- Penetration Tester
- IT Business Analyst
- Information Architect
- Vulnerability Researcher
- Chief Security Officer (CSO)
- Information Assurance Analyst
- Computer Forensics Investigator

⊘ COURSEWORK (45 CR)

↗ Intake: February and September

Package 1: Weekdays Class
1.5 years (3 semesters)-4 years (8 semesters)
Package 2: Weekend Class
2 years (4 semesters)- 4 years (8 semesters)

"Latest technological developments .."

" UTMRazak had done a splendid job by inculcating the ability in me to learn and build foundation knowledge to graduate as MSc (Information Assurance). The programme included the latest technological developments in IT security, which increased my employment prospects when I entered the job market. The programme structure also gave practical value to the idea of learning, and that helped me develop my self-learning and decision-making skills. "

MIZA SHAZWANI KAMARULZAMAN
SAP Consultant
ABeam Consulting (Malaysia) Sdn. Bhd.

"Practical applications..!"

" As an IT administrator directly involved in managing the day-to-day operations of IT in one of the Malaysian government department, the programme has helped me in identifying areas for ICT administration and security improvement. The UTMRazak MSc (Information Assurance) programme focus on practical application rather than a theoretical approach to problems. It is relevant and useful for critical thinking, and for coming up with real-life IT Security solutions. "

HURAIZAH ZAKARIA
Principal Assistant Director
Malaysian Public Works Department