MASTER OF INFORMATION TECHNOLOGY (STRUCTURE B)

Programme Info

The MIT (Master of Information Technology) program aims at providing Master's Degree holders with advanced knowledge and skills in dealing with an organization's computing requirements and needs. This program intends to cater for both Computer Science and Information Technology graduates

Entry Requirement

1. Bachelors in the relevant domain with Upper Second Class Honours or CGPA 2.75 and above ; or

2. Bachelors in the relevant domain with Lower Second Class Honours or CGPA 2.50 - 2.74, and 1 year experience and at least 1 publication, or 2 years professional experience in the domain; or

3. Bachelors in the relevant domain with CGPA below 2.50, and 5 years' experience in the domain

Subjects

No	Status	Code	Subjects	Credit hr.	%
1	3 Core Courses (9 cr. hrs.)	UNIM523	Research Methodology In Information Technology		22.5
2		MITM563	Knowledge Management		
3		MITM773	MIS and Competitive Intelligence		
4	4 Elective Courses (12 cr. hrs.)	MITM613	Intelligent Systems	3	30.0
5		MITM623	Programming Language		
6		MITM633	Interactive Systems Design		
7		MITM643	Strategic Information System Planning		
8		MITM653	IT Governance		
9		MITM663	Computer Security		
10		MITM713	Advanced Database		
11		MITM723	Data Analytics		
12		MITM733	Digital Forensics		
13		MITM743	Advanced Project Management		
14		MITM753	Advanced Computer Networks		
15		MITM763	Advanced Multimedia Applications		
16	Research Project (Core)	MPRM519	Project	19	47.5
			TOTAL CREDIT HR. FOR GRADUATION	40	100%

Key Research Area

The specialized areas of research under the programme are listed as follows:

1. MIS and Competitive Intelligence,
2. Advanced Database,
3. Knowledge Management,
4. Computer Security,
5. Research Methodology In Information Technology,
6. Strategic Information System Planning,
7. Advanced Computer Networks,
8. IT Governance,
9. Advanced Project Management,
10. Interactive Systems Design,
11. Computer Forensics ,
12. Programming Language,
13. Business Intelligence,
14. Project

Duration of Study & Fee Structure

Please click for more details

Coordinator

Dr. Nor'ashikin Bte Ali

shikin@uniten.edu.my

+60389287307

MASTER OF INFORMATION TECHNOLOGY (STRUCTURE B)

MISM613/MITM773 MIS and Competitive Intelligence

Synopsis

This course provides an introduction to management information systems that students will find vital to their professional success. It explores the digital integration of the organisation and the use of Internet technology to digitally enable business processes for electronic business and electronic commerce. It looks at new applications and technologies that improve companies' relationships with customers and create additional value through closer collaboration with suppliers and other business partners. It also highlights the need to demonstrate the business value of information systems in the organisation. Competitive intelligence is introduced to impart understanding in the tactical level, integration of existing information infrastructure, analysis and distribution of the information, and the making of business decisions on the analysis of that information.

MITM723 Data Analytics

Synopsis

This course provides the fundamental understanding of business intelligence, business analytics and big data concepts; as well as its uses and challenges in the current business environments. The course also looks at the process, contents and context of managerial decision making and how the implementation of Business Intelligence can help in improving management decision-support effectiveness. This course will also describe the data analytics life cycle as well as the methods and algorithms to perform data analytics in enhancing the delivery of business value and competitiveness in modern organizations. Some of the current technologies and tools related to big data will also be discussed. The course will also discuss the current issues related to big data and future trends.

MITM733 Digital Forensics

Synopsis

This course, students learn the fundamental principles of digital forensics. The topics include the classification of the digital evidences, the procedure of discovering and preserving evidences, types of computer and Internet crimes, and analysis of computer crime statistics and demographics. Students also learn how to search and retrieve information to find the evidences using some common tools. Related legal procedures, regulations, and laws are also discussed briefly

MITM713 Advanced Database

Synopsis

Advanced Database Systems is a course which introduces students to various kinds of database systems which are currently used such as distributed databases, data warehouse, data mining, object-oriented databases and data administration and security. Programming using Oracle 9i will be taught as part of the course in a lab which will further enhance the knowledge of database systems among the students.

MITM563 Knowledge Management

Synopsis

In a knowledge based economy, the ability to manage knowledge becomes a matter of competitive survival. Many knowledge management literature addresses the subject, from a human resource, information systems or practitioner perspective. This course attempts to consolidate and integrate all these dimensions.

This course is centred around five parts of the knowledge cycle, namely, discovering knowledge; generating knowledge; evaluating knowledge; sharing knowledge; and leveraging knowledge. It introduces the concepts of knowledge management in organization and discusses, primarily, on the philosophy of knowledge, basic principles of knowledge management, needs and drivers of knowledge management, types of knowledge assets, knowledge management tools, knowledge audit, data mining and knowledge discovery, sharing and leveraging knowledge and culminating in a framework for knowledge management and its implementation strategies.

MITM663 Computer Security

Synopsis

This course introduces the basics of computer security, as well as the security of data. It also aims at creating the necessary awareness of users as well as professionals in computing about the underlying principles of cryptography, network security, and program security and offers a brief insight in the other specific emerging security related topics. The accompanying lab exercises offer some hands-on at encryption, keys, networks, and their security aspects, as well as one on the use of virtual machines for security purposes.

UNIM523 Research Methodology

Synopsis

This course will equip students with the skills necessary to undertake a research project in IT. They will learn project planning, information skills, qualitative and quantitative methodologies, methods of data analysis, writing skills and oral presentation skills. They will also be exposed to contemporary research in IT.

MITM643 Strategic Information Systems Planning

Synopsis

This course emphasises the need for organisations to plan their information systems (IS) initiatives strategically in order to gain competitive advantage. It explores the different strategic approaches to manage information and information systems in order to improve their contribution to an organisation. This involves assessing the quality of information available and working to develop processes and introduce applications/systems to make better use of this information. It does not focus on the hardware and software technology but emphasis on the informational aspect of IS/IT. This course acknowledges the major problems associated with implementing information systems which deliver value to the business. It explores the reasons for these problems and management solutions to reduce them.

MITM753 Advanced Computer Networks

Synopsis

This course will enable students to have a deeper understanding of high-speed networks. This includes the ability to perform network modeling and analysis, and perform routing computation. The student will also be exposed with the concept of Quality of Service (QoS) and the mechanisms required to implement QoS in a high-speed network.

MITM653 IT Governance

Synopsis

Introduction to IT governance, Foundation of IT Governance, Introduction to some of the widely accepted IT Governance Frameworks and Best Practices, and Key steps in implementing IT Governance.

MITM743 Advanced Project Management

Synopsis

This subject explores project management theories, techniques, methodologies and relevant tools. It looks at key ideas and issues about initiating, planning, executing, monitoring and controlling stages of managing a project. It reviews the latest issues on leadership, teamwork, project strategy and implementation processes. It involves rigorous self-study, implementation and continuous evaluation of performance through assignments, submissions, class preparation and participation.

MITM633 Interactive System Design

Synopsis

This course introduces the relevance and importance of Human–Computer Interaction (HCI) concept for designing an interactive system that includes the study of interaction between people (users) and computers. Through this course, students are exposed with the fundamental needs in designing an interaction systems such as the goals, principles, guidelines, users requirements and expectations. Case studies and class assignments are provided to expose the students with the examples, problems and issues, requirements gathering and analysing as well as designing the prototype. Students are also introduced to the importance of evaluation process, various techniques, and framework that can be applied in their class assignment.

MITM623 Programming Language

Synopsis

This module serves as an introductory course to the concepts of programming languages. The course also provides the students with the tools necessary for critical evaluation of existing and future programming languages and constructs. It will also prepare the students for the study of compiler design. Students are exposed to various aspects of computer programming languages, which include the evolution of major programming languages along with their syntax and semantics and the formal methods of describing the languages' syntax. The course will cover the theoretical parts that are very useful during the software development process. The knowledge acquired in this course will equip the students with the necessary tools in evaluating all major programming languages and selecting the most suitable language for implementing specific application software. This course will increase the students' ability to learn new programming languages, have better understanding of the significance of the implementation phase within the software development cycle, and better use of languages that are already known.

MPRM519 Research Project

Synopsis

This course exposes the students to advanced study and training in research, culminating in the submission of a thesis. The course will develop research capability, creativity and ability to collate the results of the research work and to present them in a clear manner, demonstrating knowledge of the literature of the subject.