FACULTY OF INFORMATION SCIENCE AND TECHNOLOGY

Dean:	Professor Dr. Aziz Deraman, *BSc (UKMalaysia), MSc (Wales), PhD (Nott)*
Deputy Deans:	Associate Professor Dr. Md. Jan Nordin, *BSc, MSc (Ohio), PhD (Sheffield-Hallam)*
	Associate Professor Dr. Abdullah Mohd. Zain, *BSc (Southampton), MSc (Wales), PhD (Nott)*

Research Degrees:

Master of Information Technology
Doctor of Philosophy

Taught Programmes:

Master of Information Technology

Research in information technology at Universiti Kebangsaan Malaysia (UKM) began with the establishment of the Department of Computer Science in 1982. The Department was expanded into a faculty, known as Faculty of Information Science and Technology (FTSM), in 1994. Since then FIST grew and matured into an established faculty in terms of research and teaching of information technology and related disciplines. FIST has established various research groups in the areas of software engineering, industrial computing, multimedia, system science and management, computer systems, artificial intelligence and information technology impact study. In response to the changing scenario in the research and teaching of information technology, FIST has formulated a long-term strategic plan for its research and teaching activities. FIST was conferred MSC status in year 2001 for its involvement and contribution to the research and teaching of information technology and related disciplines.

PROGRAMME STRUCTURE

Doctor of Philosophy

The Doctoral Programme at the Faculty involves full-time research-based work for a duration of 3 years. It is compulsory for a candidate to take the following course:

TM6013 Research Methodology in Information Technology

MASTER OF INFORMATION TECHNOLOGY
(Coursework Only)

COURSES OFFERED

Required by Faculty   30 units

TM6013	Research Methodology in Information Technology
TK6033	Software Management
TK6123	Computer Architecture System
TK6383	Computer Networking
TK6193	Programming I
TK6293	Programming II
TP6033	Multimedia Technology

TS6013	Information System Development Methodology	
TS6023	Information Modelling and Data Bases	
TS6033	Information Technology and Environment	

Research Project 9

TM6079	Research Project	9

Elective Courses   6

Choose any masters level course offered and approved by the faculty to complete 6 course units.

Total Unit   45

MASTER OF INFORMATION TECHNOLOGY (COMPUTER SCIENCE)
(Coursework and thesis)

Scope of Programme
This Master of Information Technology Programme is designed to increase knowledge and expertise in Information Technology specifically in the following fields:- Scientific Computing, Management Information Systems, Expert Systems, Computer Science, Information Science, Information Technology in Education/Training and Information Retrieval.

COURSES OFFERED

Required by Faculty   3

TM6013	Research Methodology in Information Technology

Required for Specialization   3

TK6433	Algorithm and Data Structure

Courses to Complete Specialization   6-12

TK6013	Automata and Programming Theory
TK6053	Software Management
TK6123	Mantic and Mantic Programming
TK6223	Object-Oriented Programming
TK6383	Computer Networking
TK6523	Computer Graphics
TS6543	Advanced Artificial Intelligence

Elective Courses   0-6

Choose any masters level course offered and approved by the faculty to complete 18 course units.

Thesis   18

Total Unit   36

MASTER OF INFORMATION TECHNOLOGY (MANAGEMENT INFORMATION SYSTEMS)
(Coursework and Thesis)

Scope of Programme
This Master of Information Technology Programme is designed to increase knowledge and expertise in the concepts and methodologies of development and management of information systems. This programme will also equip students with the skills to perform research activities in the fields of Management Information Systems.

COURSES OFFERED

Required by Faculty		3
TM6013	Research Methodology in Information Technology	

Required for Specialization		3
TS6213	Executive Information System	

Courses to Complete Specialization		6-12

Select at least 6 units from the following list:

TS6223	Information System Auditing
TS6233	Client-server Computing
TS6273	Computerised Quantitative Modelling
TS6293	Project Management
TS6333	Information System Management
TS6343	Public Sector Information System
TS6373	Accounting and Financial Information System
TS6543	Advanced Artificial Intelligence

Elective Courses	0-6

Choose any masters level course offered and approved by the faculty to complete 18 course units.

Thesis	18

Total Unit	**36**

MASTERS OF INFORMATION TECHNOLOGY (INFORMATION SCIENCE)
(Coursework and Thesis)

Scope of programme
This Master of Information Technology programme is designed to increase knowledge and expertise in the field of Information Science, encompassing aspects relating to the use of IT in Information Availability, Information Sources, Administration and Retrieval of Information, Information Trade and the Information Superhighway.

COURSES OFFERED

Required by Faculty		3
TM6013	Research Methodology in Information Technology	

Required for Specialization		3
TP6083	Information Retrieval	

Courses to Complete Specialization	6-12

Select at least 6units from the following list:

TP6013	Information Super Highway
TP6023	Information Facilities and Information Technology
TP6033	Multimedia Technology
TP6043	Multimedia Innovation
TP6053	Information Resources and System in Social Science
TP6063	Information Resources in Development and Environment
TP6073	Information Policy
TP6093	Information Services Marketing
TP6123	Information Access and Management

Elective Courses	0-6

Choose any masters level course offered and approved by the faculty to complete 18 course units.

Thesis	18

Total Unit	**36**

DEPARTMENT OF COMPUTER SCIENCE

COURSES OFFERED

Elective Courses

TK6013	Automata and Programming Theory
TK6053	Software Management
TK6073	Design and Analysis of Algorithm
TK6433	Algorithm and Data Structure
TK6523	Computer Graphics

18
36

ACADEMIC STAFF

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DEPARTMENT OF INFORMATION SCIENCE

COURSES OFFERED

Elective Courses
TP6043   Multimedia Innovation
TP6053   Information Resources and System in Social Science
TP6063   Information Resources in Development and Environment
TP6073   Information Policy
TP6083   Information Retrieval
TP6093   Information Services Marketing
TP6123   Information Access and Management
TP6143   Data Structure and Algorithm for Information Retrieval
TP6213   Information Super Highway
TP6413   Literacy, Reading and Information Technology
TP6513   Cognitive Development and Information Technology
TP6533   Natural Language Processing
TP6613   Information Technology in Education/Training

ACADEMIC STAFF

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DEPARTMENT OF INDUSTRIAL COMPUTING

COURSES OFFERED

Elective Courses
TN6323   Productivity Measurement
TR6103   Numerical Analysis
TR6123   Parallel Computing
TR6143   Geometric Modelling
TR6163   Computerised Fluid Dynamic
TR6363   Statistical Process Control
TR6383   IT in Manufacturing Industry
TR6523   Production Process Control
TR6543   Computer Aided Design System and Management Science Department

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Yuzita Yaacob, *BSc, MSc (Sam Houston)*

DEPARTMENT OF SCIENCE AND SYSTEM MANAGEMENT

COURSES OFFERED

Elective Courses
TN6303   Productivity Management
TN6343   Total Quality Management
TS6123   Logic and Logic Programming
TS6213   Executive Information System
TS6223   Information System Auditing
TS6233   Client-server Computing
TS6263   Strategic Information System

TS6273	Computerised Quantitative Modelling
TS6293	Project Management
TS6333	Information System Management
TS6343	Public Sector Information System
TS6373	Accounting and Financial Information System
TS6453	Information System in Building Sector
TS654	Advanced Artificial Intelligence

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Professor
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