



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

Faculty of
Management

2022
2023

SEMESTER 2

POSTGRADUATE
ACADEMIC
HANDBOOK

FACULTY OF MANAGEMENT
UNIVERSITI TEKNOLOGI MALAYSIA

Foreword by the Dean

Postgraduate Studies Administration:

Faculty of Management Administration

Faculty of Management Postgraduate Administration

Program Information:

PFMM3: Doctor of Philosophy

PFMS3: Doctor of Philosophy

MFMM3: Master of Philosophy

MHAM2: Master of Management Specialization: Technology
Management

MBSC2: Master of Information Technology Specialization:
Information Technology Management

MBSM1: Master of Science (Information Technology
Entrepreneurship)

General Rules, Procedures, and Resources:

Course Registration

Progress Report

Proposal Defense

Notice of Thesis Submission (NHT)

Deferment of Study

Resources

FOREWARD BY THE DEAN

All praise be to Allah, and peace and blessings be upon His Last Messenger, his pure family, his noble Companions, and all those who follow them with endless kindness.

Assalamu'alaikum and welcome to the Faculty of Management (FM), Universiti Teknologi Malaysia (UTM) with full of excitement and gratitude. FM offers a wide range of postgraduate Ph.D. and Master programs with multidisciplinary in nature covering management technology innovation, contemporary accounting, modern finance, innovative marketing, and digital transformation.

Multidisciplinary academic programs important in today's higher education because the needs in government, business, and society are constantly changing which require innovative solutions based on flat management and flexibility, agile accounting, fintech services, experimental marketing, datafication, artificial intelligence (AI), and blockchain technology. At FM, we are aware, we respond, we participate, and we lead to all these changes.

FM always played an important role in contributing to UTM's achievement of excellence in many fields including the enrolment of post-graduate students. Currently, FM has more than 250 PhD students and around 20 master students. We receive approximately 300 applications from all over the world to continue studying at FM for each intake in March and October. Out of this large number of applicants, we only accept about 60 students which is an acceptance rate of only about 20% and this is very competitive. Therefore, those who are here today are very lucky to be FM citizens in dignifying your academic journey. I strongly believe that the diversity of Doctor of Philosophy and Master programs that we offer allows you to fly high.



FM always puts excellence and noble character as the holistic achievement of success. As a postgraduate student, you should polish your critical thinking, problem-solving skills, good leadership and teamwork, high integrity, and passion for learning throughout your life. These are the qualities that represent the wisdom of a highly knowledgeable person. In achieving this holistic excellence, you must work hard, and communicate actively with your supervisors, lecturers, research community, and peers throughout your study life. Always remember, the goal of higher education is to advance knowledge in your field and uphold the truth while contributing effectively to your family, community, and country. Making an effective contribution must be accompanied by the spirit that improvement never ends. Improvements must be innovative, well-managed, and always ready to serve the public. We here at FM will always work hard to inspire this good spirit for the prosperity of mankind.

Lastly, life is not always in a straight line and is more challenging when you are a postgraduate student. Therefore, study hard, play hard, and enjoy every moment of your life at UTM through its friendly staff, facilities, and harmonious atmosphere. Together we make our place here a home for academic excellence.

Selamat maju jaya dan terima kasih.

Associate Professor Dr. Ahmad Jusoh,
Dean,
Faculty of Management,
Universiti Teknologi Malaysia

FACULTY OF MANAGEMENT

FACULTY OF MANAGEMENT ADMINISTRATION

The Faculty of Management (FM) has grown since the inception of UTM and has provided services to the nation for over 50 years. FM has always played an important role in supporting UTM's synergy initiatives since 2017. From 2023, FM stands proudly again to steer contemporary and innovative studies through management technology, accounts and finance, marketing and entrepreneurship, and information systems. The FM management team is the Table 1 below.

Table 1: FM Management Team

Position	Name	Email
Dean	Assoc. Prof. Dr. Ahmad bin Jusoh	ahmadj@utm.my
Deputy Dean (Academic & Student Affairs)	Dr. Nor Zafir Bt. Md. Salleh	zafir@utm.my
Deputy Dean (Research, Development & Innovation)	Assoc. Prof. Dr. Suresh Ramakrishnan	suresh@utm.my
Director of Accounting & Finance	Assoc. Prof. Dr. Dewi Fariha Abdullah	dewifariha@utm.my
Director of Marketing & Entrepreneurship	Assoc. Prof. Dr. Zuraidah Sulaiman	zuraidahs@utm.my
Director of Management & Technology	Assoc. Prof. Dr. Roshazlizawati Mohd. Nor	roshazlizawati@utm.my
Director of Information Systems	Assoc. Prof. Ts. Dr. Suraya Miskon	suraya@utm.my
Postgraduate Academic Manager	Dr. Halina Mohamed Dahlan	halina@utm.my
External Program Academic Manager	Dr. Siti Zaleha Omain	zaleha@utm.my
Deputy Registrar	Mohd Syazli Md Tahir	msyazli@utm.my

FM POSTGRADUATE ADMINISTRATION

At FM, all academic matters including postgraduate are under the responsibility of the Dean and assisted by the Deputy Dean (Academic & Student Affairs), Postgraduate Academic Manager, and all Directors. All decisions regarding postgraduate academics will be discussed in the Faculty Academic Committee (JKA) meeting which will be held once a month. This committee is the official medium in the faculty before being forwarded to the SPS level for further action in some cases.

At the management level, the postgraduate academic will have a dedicated team led by the Postgraduate Academic Manager assisted by the 4 Head of Program (HOP). This team will coordinate, facilitate and monitor all postgraduate academic procedures such as student registration, deferral, proposal defense, viva-voce, final thesis submission, and application for graduation. Table 2 lists the postgraduate academic team at FM.

Table 2: FM Postgraduate Academic Team

Position	Name	Email
Postgraduate Academic Manager	Dr. Halina Mohamed Dahlan	halina@utm.my
HOP Doctor of Philosophy and Master of Philosophy	Dr. Norzaidahwati Zaidin	nzw@utm.my
HOP Doctor of Philosophy	Assoc. Prof. Dr. Ab Razak Che Hussin	abrazak@utm.my
HOP Master of Management Specialization: Technology Management	Assoc. Prof. Dr. Aslan Amat Senin	aslan@utm.my
HOP Master of Information Technology Specialization: Information Technology Management	Dr. Halina Mohamed Dahlan	halina@utm.my
HOP Master of Science (Information Technology Entrepreneurship)	Assoc. Prof. Dr. Othman bin Ibrahim	othmanibrahim@utm.my

The students at FM are always given high-quality service from the office in speeding up their academic affairs. There are 4 administrative staff who are always ready to help students as in Table 3 below. The students can contact this staff through the email written in the table below.

Table 3: FM Postgraduate Administration Staff

Academic matter	Contact Person	Email
General academic matters (Course registration, withdrawal, and deferral of studies).	Mdm. Azlina Gombak @ Atan	academic-fm@utm.my
Proposal defense, and Turnitin plagiarism check.	Mdm. Susilawati Md Sukor	
Viva-voce and submission of thesis.	Ms. Arinah Ahmad Mdm. Norhafizah Hamdan	

INFORMATION FOR RESEARCH STUDIES PROGRAM (Doctor of Philosophy and Master of Philosophy)

Program Code : PFMM3
Program Name : Doctor of Philosophy
(Formerly known as Doctor of Philosophy Field of Research: Management)
MQR Record : MQA/SWA0296
NEC Code : 0414 (Management and Administration)

INTRODUCTION

Doctor of Philosophy (Ph.D.) is the highest research degree which involves an academic exercise to produce a research thesis under the close supervision of a faculty member (Supervisor). The Ph.D. thesis produced should make scholarly significant contributions to the chosen field of study. Students also have the opportunity to develop and strengthen their research skills, explore their critical and analytical skills, expand networking, or build collaborations on publications.

Students will be supervised by academic staff who will advise them on the direction and structure of the research throughout the entire Ph.D. study. The students put forward a research topic of their interest and they can work on research projects based on their supervisors' research interests. This should be mutual between the supervisor and the student. The main objective is to develop independent, skillful, and successful researchers who can work on promising ideas, and thus can conduct more research independently upon their graduation. Following a successful proposal defense session, students would start to gather research data, analyse, data and write their thesis. The conferment of the degree is subject to the successful completion of the thesis and viva voce. FM offers you a research experience that unleashes your ultimate potential in shaping your future. The duration of Ph.D. studies is a minimum of 3 years and a maximum of 8 years.

RESEARCH AREA

- Accounting, Audit, and Taxation
- Finance
- Business Strategy
- Management
- Business Law
- Corporate Governance
- Economics
- Entrepreneurship
- Information System Management
- Management Technology
- Human Resource
- Marketing
- Operation

EDUCATION, LEARNING, AND COURSE OUTCOMES

There are 3 main components that are given high attention in FM when developing academic programs, namely Program Educational Objectives (PEO), Program Learning Outcomes (PLOs), and Course Learning Outcomes (CLO).

The PEO is a list of target achievements for each student from the program after 3 years of graduation. For PFMM3, there are 4 PEOs that have been established to ensure that graduates from this program can lead the sustainability of innovative organizations. Table 4 lists the PEOs of PFMM3.

Table 4: PEO of PFMM3

PEOs	PEO Statement
PEO1	Proficient in synthesising in-depth relevant knowledge in solving real world problems using research skills.
PEO2	PEO 2 Competent in demonstrating critical and creative ideas by applying leadership, personal and interpersonal skills, in order to expand and share the knowledge in related field.
PEO3	Enthusiastic in adopting and extend the latest relevant knowledge and cutting-edge technologies through life-long learning process.
PEO4	Comply with professional, societal and ethical responsibilities.

Program Learning Outcomes (PLOs) are provided to identify what students will learn or be able to do after completing the program. The learning outcomes of the PFMM3 program are intended to ensure that graduates from this program are efficient in providing innovative solutions to specific problems, have good leadership characteristics, excel in teamwork, and are skilled in writing and communication. The specific PLO for PFMM3 is shown in Table 5 below.

Table 5: PLOs of PFMM

PLOs	PLO Statement
PLO1 (KW)	Apply critical and integrative knowledge to manage and solve complex issues or problems through research, using latest techniques, tools, and advanced skills to make decisions and come up with new ideas and solutions.
PLO2 (CG)	Make substantial contribution through the creation of new knowledge/theories/ solutions/practice through originality and independent research, which satisfies peer reviews and international standards.
PLO3 (PS)	Demonstrate mastery of practical skills and scientific skills to solve complex research problems.
PLO4 (IPS)	Work to deal with different people in the learning and community of employees, other groups and networks, ethically and professionally.
PLO5 (CS)	Communicate effectively the knowledge, skills, ideas and research findings using appropriate methods to peers, scholarly communities, and societies through various medium.
PLO6 (DS)	Use, improve existing or develop new appropriate tools or methodologies using a broad range of information, media and technology to support and enhance research activities.
PLO7 (NS)	Demonstrate skills in designing, critical evaluation, and analysing numerical and graphical data using quantitative or qualitative tools in solving problems.

PLO8 (LAR)	Demonstrate leadership, professionalism and management skills, and take full responsibility for own work, and significantly for others in the research organization.
PLO9 (PRS)	Take full responsibility for own work and where relevant be accountable for overall management of one's research organization and professional development.
PLO10 (ENT)	Demonstrate entrepreneurial characteristics.
PLO11 (ETS)	Demonstrate adherence to legal, ethical and professional codes of practice as a postgraduate student.

Course Learning Outcomes (CLOs) are targets set to be achieved by students after taking the courses offered in the program. The CLOs for each course will be explained by the course lecturer.

The following **Compulsory Course** known as Research Methodology must be registered by all students in Semester 1 of the study.

Name of Course	Code	Section	Status
Research Methodology	UBSP 6013	01	HW

The following **Research Course** must be registered by all students each semester throughout their studies. Codes change by semester increments. Students are recommended to complete their studies within 3 years (6 semesters) and the maximum period allowed is 8 years (16 semesters).

Semester	Research Code	Section	Semester	Research Code	Section
1	PFMM1100	01	9	PFMM5100	01
2	PFMM1200	01	10	PFMM5200	01
3	PFMM2100	01	11	PFMM6100	01
4	PFMM2200	01	12	PFMM6200	01
5	PFMM3100	01	13	PFMM7100	01
6	PFMM3200	01	14	PFMM7200	01
7	PFMM4100	01	15	PFMM8100	01
8	PFMM4200	01	16	PFMM8200	01

The following list is the **General University Course** that must be registered ONLY ONE by all students in the 1st or 2nd semester of study.

Course Code	Name of Course
UBSS 6013	Organization Behaviour and Development
UBSS 6023	Business Ethics, Responsibility and Sustainability
UHMS 6013	Seminar on Global Development, Economic and Social Issues
UHMZ 6023	Malaysian Society and Culture
UHS 6013	Philosophy of Science and Civilization
UHPS 6013	Dynamics of Leadership
UHLM 6013	Malay Language for Post Graduates
URTS 6013	Environmental Ethics
UECS 6013	IT Project Management
UECS 6023	Introduction to Technopreneurship
UMJJ 6013	Basic Japanese Language & Culture

Program Code : PFMS3
 Program Name : Doctor of Philosophy
 (Formerly known as Doctor of Philosophy Field of Research: Information System)
 MQR Record : MQA/SWA0355
 NEC Code : 0611 (Information Technology and Information System)

INTRODUCTION

This is a guided full research Ph.D. program for those who intend to further their studies in the field of Information Systems (IS). The main aim of the program is to educate professionals and academic research scholars to perform high-quality IS research. They will be able to apply the Information Systems and Technology theories in analysing and solving real organizational problems innovatively.

This program is designed in such a way that students will be guided in developing technical and empirical research skills. The taught courses in the first year introduce the students to a broad knowledge of research paradigms, Information Systems theory, and current Information Systems research. Through the research methodology course, different research orientations and methods will be introduced. The duration of PhD studies is a minimum of 3 years and a maximum of 8 years.

RESEARCH AREA

- Information Systems Design and Development
- Information Systems Adoption/Implementation
- Innovation in E-Commerce/Social Commerce
- Business Transformation
- Knowledge management
- Data management and analytic
- Innovation in E-Learning/E-Health

EDUCATION, LEARNING, AND COURSE OUTCOMES

The outcomes for education (PEOs) and learning (PLOs) designed for PFMS3 are similar to PFMM3 as shown in Table 4 and Table 5. Course Learning Outcomes (CLOs) are the target to be achieved by students after taking the courses offered in the program. The CLO for each course will be explained by the course lecturer.

The following **Three Compulsory Courses** know related to IS Research Methodology must be registered by all student in Semester 1 and 2 of the study.

Semester 1:

Name of Course	Code	Section	Status
IS Research Methodology Fundamentals	UBSP 6033	01	HW
IS Research Methodology Practice	UBSP 6043	01	HW

Semester 2:

Name of Course	Code	Section	Status
IS Research Topic Seminar and Discourse	UBSP 6053	01	HW

The following **Research Course** must be registered by all students each semester throughout their studies. Codes change by semester increments. Students are recommended to complete their studies within 3 years (6 semesters) and the maximum period allowed is 8 years (16 semesters).

Semester	Research Code	Section	Semester	Research Code	Section
1	PFMS1100	01	9	PFMS5100	01
2	PFMS1200	01	10	PFMS5200	01
3	PFMS2100	01	11	PFMS6100	01
4	PFMS2200	01	12	PFMS6200	01
5	PFMS3100	01	13	PFMS7100	01
6	PFMS3200	01	14	PFMS7200	01
7	PFMS4100	01	15	PFMS8100	01
8	PFMS4200	01	16	PFMS8200	01

The following list is the **General University Course** that must be registered **ONLY ONE** by all students in the 1st or 2nd semester of study.

Course Code	Name of Course
UBSS 6013	Organization Behaviour and Development
UBSS 6023	Business Ethics, Responsibility and Sustainability
UHMS 6013	Seminar on Global Development, Economic and Social Issues
UHMZ 6023	Malaysian Society and Culture
UHS 6013	Philosophy of Science and Civilization
UHPS 6013	Dynamics of Leadership
UHLM 6013	Malay Language for Post Graduates
URTS 6013	Environmental Ethics
UECS 6013	IT Project Management
UECS 6023	Introduction to Technopreneurship
UMJJ 6013	Basic Japanese Language & Culture

Program Code : MFMM3
Program Name : Master of Philosophy
(Formerly known as Master of Philosophy Field of Research: Management)
MQR Record : MQA/SWA0299
NEC Code : 0414 (Management and Administration)

INTRODUCTION

This program is designed to provide advanced research-based studies in management related to a wide array of issues in management and technology related. Research activities are aimed at developing an in-depth understanding of the state of knowledge in a technology-inclined management discipline that will contribute to the expansion of new knowledge, expertise, and research skills. Students will engage in a significant research investigation of a specific inquiry resulting in the production of a thesis either with a theoretical or applied focus.

Students will have the opportunity to analyse issues, and contribute or expand knowledge in their area of interest through observations, literature review, and data analysis. At the end of the program, students must submit a maximum of a 200-page thesis (including references) on a research topic that has been agreed upon by the faculty. The conferment of the degree is subject to the successful completion of the thesis and viva voce. FM offers you a research experience that explores your potential to shape your future.

RESEARCH AREA

- Accounting and Finance
- Business and Management
- Business Law and Taxation
- Corporate Governance
- Economics
- Entrepreneurship
- Information System Management
- Management Technology
- Marketing

EDUCATION, LEARNING, AND COURSE OUTCOMES

There are 3 main components that are given high attention in FM when developing academic programs, namely Program Educational Objectives (PEO), Program Learning Outcomes (PLOs), and Course Learning Outcomes (CLO).

The PEO is a list of target achievements for each student from the program after 3 years of graduation. For MFMM3, there are 4 PEOs that have been established to ensure that graduates from this program can lead the sustainability of innovative organizations. Table 6 lists the PEOs of MFMM3.

Table 6: PEO of MFMM3

PEOs	PEO Statement
PEO1	Proficient in assimilating in-depth relevant knowledge in solving real world problems using research skills.
PEO2	Competent in managing tasks by applying leadership, personal and interpersonal skills.
PEO3	Enthusiastic in adopting the latest relevant knowledge and cutting-edge technologies through life-long learning process.
PEO4	Comply with professional, societal and ethical responsibilities.

Program Learning Outcomes (PLOs) are provided to identify what students will learn or be able to do after completing the program. The learning outcomes of the MFMM3 program are intended to ensure that graduates from this program are efficient in providing innovative solutions to specific problems, have good leadership characteristics, excel in teamwork, and are skilled in writing and communication. The specific PLO for MFMM3 is shown in Table 7 below.

Table 7: PLOs of MFMM3

PLOs	PLO Statement
PLO1 (KW)	Apply knowledge critically and integratively to manage and resolve complex problems or issues in management and business through research, using advanced techniques, tools, skills for decision making and producing new ideas and solution.
PLO2 (CG)	Exemplify capacity to solve and manage complex problems or issues in research field.
PLO3 (PS)	Demonstrate technical skills and practices to solve research problems, with reasonable degree of originality.
PLO4 (IPS)	Work together and collaboratively with different people in learning, communities and other groups and networks, ethically and professionally.
PLO5 (CS)	Communicate the knowledge, skills, ideas clearly using appropriate methods to peers, experts, and non-experts through various medium.
PLO6 (DS)	Use a broad range of information, media, digital technologies and software to support research works or studies.
PLO7 (NS)	PLO 7 Demonstrate skills in designing, planning evaluation activities, and analysing numerical and graphical data using quantitative or qualitative tools in solving problems.

PLO8 (LAR)	PLO 8 Demonstrate leadership, autonomy and responsibility in conducting and managing own research and resources.
PLO9 (PRS)	PLO 9 Exemplify self-advancement through continuous academic development.
PLO10 (ENT)	PLO 10 Demonstrate entrepreneurial characteristics.
PLO11 (ETS)	PLO 11 Demonstrate adherence to legal, ethical and professional codes of practice as a postgraduate student.

Course Learning Outcomes (CLOs) are targets set to be achieved by students after taking the courses offered in the program. The CLOs for each course will be explained by the course lecturer.

The following **Compulsory Course** known as Research Methodology must be registered by all students in Semester 1 of the study.

Name of Course	Code	Section	Status
Research Methodology	UBSP 6013	01	HW

The following **Research Course** must be registered by all students in each semester throughout their studies. Codes change by semester increments. Students are recommended to complete their studies within 2 years (4 semesters) and the maximum period allowed is 4 years (8 semesters).

Semester	Research Code	Section
1	MFMM1100	01
2	MFMM1200	01
3	MFMM2100	01
4	MFMM2200	01
5	MFMM3100	01
6	MFMM3200	01
7	MFMM4100	01
8	MFMM4200	01

The following list is the **General University Course** that must be registered **ONLY ONE** by all students in the 1st or 2nd semester of study.

Course Code	Name of Course
UBSS 6013	Organization Behaviour and Development
UBSS 6023	Business Ethics, Responsibility and Sustainability
UHMS 6013	Seminar on Global Development, Economic and Social Issues
UHMZ 6023	Malaysian Society and Culture
UHS 6013	Philosophy of Science and Civilization
UHPS 6013	Dynamics of Leadership
UHLM 6013	Malay Language for Post Graduates
URTS 6013	Environmental Ethics
UECS 6013	IT Project Management
UECS 6023	Introduction to Technopreneurship
UMJJ 6013	Basic Japanese Language & Culture

Figure 1 below shows the general flow of studies for the research programs (PFMM3, PFMS3, MFMM3) at FM UTM from student admission to graduation. Students are encouraged to complete their Ph.D. studies within 3 years and 2 years for Master to be considered as graduates on time (GOT) which demonstrates excellent performance of the student.

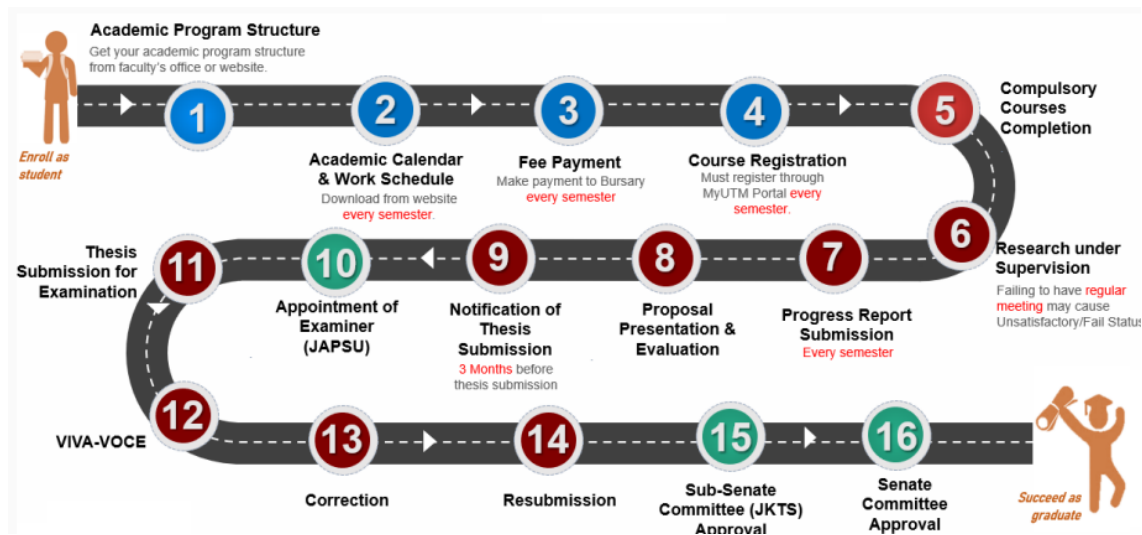


Figure 1: General flow of studies at FM UTM from student admission to graduation.

INFORMATION FOR MASTER PROGRAM BY MIXED MODE

Program Code : MHAM2
Program Name : Master of Management Specialization: Technology Management
MQR Record : MQA/SWA0454
NEC Code : 0414 (Management and Administration)

INTRODUCTION

The program is designed for students who are interested in a career in business and management. Students will be equipped with the knowledge and research skills required for management and technology studies. Research based studies are offered where core management disciplines are combined with opportunities to pursue areas of personal interests related to technological issues.

PROGRAM EDUCATIONAL OBJECTIVES

At the end of this program, graduates are:

- Knowledgeable and competent in leveraging all resources including technology to achieve organisational objectives.
- Creative, innovative, and ethical in solving managerial problems.
- Effective in communication, professional in planning and leading activities within organisation and always ready to contribute to society.
- Practicing life-long learnings for successful career advancement.

COURSES

Student in this program must be able to complete **48 credits** within 1 and half year (3 semesters) or maximum in 4 years (8 semesters). The courses are listed below.

Core Courses (Compulsory to take all 15 credits courses):

- 1) MHAD1013 - Research methodology
- 2) MHAD1023 - Corporate Finance
- 3) MHAD1033 - Managing Organisation and Change
- 4) MHAD1043 - Strategic Operation Management
- 5) MHAD1053 - Marketing Management

Elective Courses (6 credits by choosing 2 Courses):

- 1) MHAD1063 - Entrepreneurship and Commercialisation
- 2) MHAD1073 - Technology and Innovation Management
- 3) MHAD1083 - Policy and Economic of Technology Innovation
- 4) MHAD1093 - Financial Decisions in Technology Ventures
- 5) MHAD1103 - Strategic Management of Technology
- 6) MHAD1113 - Managing Emerging Technology Ventures
- 7) MHAD1123 - Managing Intellectual Property

University General Courses (3 credits by choosing 1 Course only):

- 1) UBSS 6013 Organization Behaviour and Development
- 2) UBSS 6023 Business Ethics, Responsibility and Sustainability
- 3) UHMS 6013 Seminar on Global Development, Economic and Social Issues
- 4) UHMZ 6023 Malaysian Society and Culture
- 5) UHIS 6013 Philosophy of Science and Civilization
- 6) UHPS 6013 Dynamics of Leadership
- 7) UHLM 6013 Malay Language for Post Graduates
- 8) URTS 6013 Environmental Ethics
- 9) UECS 6013 IT Project Management
- 10) UECS 6023 Introduction to Technopreneurship
- 11) UMJJ 6013 Basic Japanese Language & Culture

Dissertation (Compulsory to take 24 credits starting in Semester 2):

- MHAD1280
- MHAD2180
- MHAD2280
- MHAD3180
- MHAD3280
- MHAD4180
- MHAD4280
- MHAD5180
- MHAD5280
- MHAD6180
- MHAD6280

Program Code : MBSC2

Program Name : Master of Information Technology Specialization: Information Technology Management

MQR Record : MQA/SWA0356

NEC Code : 0611 (Information Technology and Information System)

INTRODUCTION

This program is designed for candidates who wish to obtain knowledge of applying Information Technology (IT) in variety of contexts, such as Management, Education, Library and Information Services, Manufacturing and others. This programme aims at producing responsible, innovative and creative graduates with skills in planning, organizing, designing and managing variety of ICT-based solutions to different kind of organizations.

PROGRAM EDUCATIONAL OBJECTIVES

At the end of this program, graduates are:

- Capable in managing information technology (IT) projects of various types and sizes and being able to organise and lead the organisation's information communication and technology (ICT) strategy.
- Capable to identify the needs of the industry and being able to use ICT to transform business organisations.
- Knowledgeable in technical, and management skills, and able to design, develop and manage IT systems effectively and efficiently.
- Knowledgeable in ICT foundation for self-reliance and learn for self-development to face rapid changes in IT and information system (IS) field.

COURSES

Student in this program must be able to complete **45 credits** within 1 and half year (3 semesters) or maximum in 4 years (8 semesters). The courses are listed below.

Pre-requisite Courses (if applicable):

- 1) SCSD 2613 - System Analysis and Design
- 2) SCSD 2523 - Database System
- 3) SCSD 1513 - Technology and Information Systems

Course Courses (Compulsory to take 12 credits courses):

- 1) MCSC1253 - IT Planning and Management
- 2) MCSC1213 - System Development Application
- 3) MCSC2553 - Trends in Information Technology Applications
- 4) MCSC1283 - Research Methodology in IT Management

Elective Courses (Compulsory to take 6 credits by choosing 2 courses):

- 1) MBSC 1353 - Computer Communications and Technology
- 2) MBSP 1203 -Software Technology
- 3) MBSC 1263 - IT Project Management
- 4) MBSC 2573 - IT for Organizational Transformation
- 5) MBSC 2593 - Information and Knowledge Management
- 6) MBSC 2613 - Information Security &Management System
- 7) MBSC 2623 - Enterprise Information Systems
- 8) MBSS 2113 - Human Computer Interaction
- 9) MBSC 2673 - Special Topic in Information Technology for Management
- 10) MBSS 1323 - Advanced Computer Graphic

University General Courses (3 credits by choosing 1 Course only):

- 1) UBSS 6013 Organization Behaviour and Development
- 2) UBSS 6023 Business Ethics, Responsibility and Sustainability
- 3) UHMS 6013 Seminar on Global Development, Economic and Social Issues
- 4) UHMZ 6023 Malaysian Society and Culture
- 5) UHIS 6013 Philosophy of Science and Civilization
- 6) UHPS 6013 Dynamics of Leadership
- 7) UHLM 6013 Malay Language for Post Graduates
- 8) URTS 6013 Environmental Ethics
- 9) UECS 6013 IT Project Management
- 10) UECS 6023 Introduction to Technopreneurship
- 11) UMJJ 6013 Basic Japanese Language & Culture

Dissertation (Compulsory to take 24 credits starting in Semester 2):

- MBSC1280
- MBSC2180
- MBSC2280
- MBSC3180
- MBSC3280
- MBSC4180
- MBSC4280
- MBSC5180
- MBSC5280
- MBSC6180
- MBSC6280

INFORMATION FOR MASTER PROGRAM BY COURSEWORK

Program Code : MBSM1
Program Name : Master of Science (Information Technology Entrepreneurship)
MQR Record : MQA/SWA0358
NEC Code : 0611 (Information Technology and Information System)

INTRODUCTION

This program's main objective is to produce IT entrepreneurs (IT Technopreneurs) at the postgraduate level. This is an effort to increase the number of highly skilled local IT technopreneurs as the developers of hardware, software, and creative content.

The expected duration for a full-time program is 1.5 years (3 regular semesters + 1 short semester). Technopreneurs are needed to complete 45 credits before graduation where 12 credits are dedicated to completing an IT-based product development project. For full-time students, three series of Entrepreneurship Modules (Entrepreneurship Development Training, Series 1, 2 & 3) are offered by professionals/practitioners to technopreneurs within the duration of their studies, which are normally scheduled during semester breaks.

Besides the normal class lectures, this program also adopts a Teaching Factory concept where technopreneurs have to undergo extensive practical exposure to enhance their business as well as their entrepreneurial skills. Industrial involvement is eminent to the success of this program, thus, technopreneurs will be engaged with industrial or business mentors through the Mentoring & Coaching concept introduced. To further equip the technopreneurs to become more competent, innovative, versatile, and possess ethical entrepreneurial values, they will be exposed to various kinds of external entrepreneurial programs such as seminars, series of short courses, business discourse, workshops, business forums & networking, business competitions, business visits, etc.

PROGRAM EDUCATIONAL OBJECTIVES

To produce information technology (IT) technopreneur with:

- The ability to capitalize on the opportunity and develop innovative ICT products that can be turned into a sustainable and successful business.
- The ability to lead a profitable and sustainable globally competitive ICT business with good Financial, Human Resource, and Marketing management based on ethical and entrepreneurial values.
- Vision, strong caliber, creative, innovative, entrepreneurial DNA, skillful and resourceful.

COURSES

There are 13 compulsory courses that need to be undertaken by all students in this program. These 13 courses cover a total of 45 credits, which includes University General Elective Courses (3 credits), Faculty Compulsory Courses (25 credits) and Master Projects (17 credits). The total minimum number of credits required for the award of a degree is **45 credits** (or 48 with pre-requisite course) and candidates must obtain a final academic grade of at least a 3.0 CGPA.

Another additional course, the pre-requisite (3 credits) is offered to students who do not have a basis in computer science or IT / or to selected candidates as agreed by the interview panelist. During the interview session, students are informed on whether they are required to register for this course.

The details of the courses within this program can be divided into 4 main components as follows:

Pre-requisite Course (3 Credits - if applicable):

- 1) MCSM0213 - System Development

Faculty Compulsory Courses (25 Credits):

- 1) MCSM1063 - IT Product Marketing & Sales
- 2) MBSM1163 - Trends in ICT Application and System
- 3) MBSM1273 - IT Project Management & Consultancy
- 4) MBSM1233 - IT Product Design & Development
- 5) MBSM1223 - IT Business Application Domain
- 6) MBSM1323 - Product Creativity and Innovation
- 7) MCSM1053 - Entrepreneurial Finance & Accounting
- 8) MCSM1014 - IT Business Research & Management Systems

Master Projects (17 Credits):

- 1) MBSU6313 - Project 1: Idea Generation & Opportunity Recognition
- 2) MBSU6324 - Project II - Product Proposal & Business Plan Development
- 3) MBSU6335 - Project III - Prototype Development & Business Strategy
- 4) MBSU6345 Project IV – Production, Marketing & Sales

University General Elective Course (3 Credits):

The total number of credits for this program is **45 credits** including ONE General University Course that must be taken in semester 3. The list of General University Courses that must be selected is shown in the following list.

- 1) UBSS 6013 Organization Behaviour and Development
- 2) UBSS 6023 Business Ethics, Responsibility and Sustainability
- 3) UHMS 6013 Seminar on Global Development, Economic and Social Issues
- 4) UHMZ 6023 Malaysian Society and Culture
- 5) UHIS 6013 Philosophy of Science and Civilization
- 6) UHPS 6013 Dynamics of Leadership
- 7) UHLM 6013 Malay Language for Post Graduates
- 8) URTS 6013 Environmental Ethics
- 9) UECS 6013 IT Project Management
- 10) UECS 6023 Introduction to Technopreneurship
- 11) UMJJ 6013 Basic Japanese Language & Culture

GENERAL RULES, PROCEDURES, AND RESOURCES

As a student registered at UTM and enrolled in a program at FM, there are several rules, procedures, and resources that must be followed and familiarized. Some of them are as below.

Course Registration

Course registration must be done every semester according to the academic calendar given by UTM. Students must take note and follow carefully all the dates given in the following Figure 2.

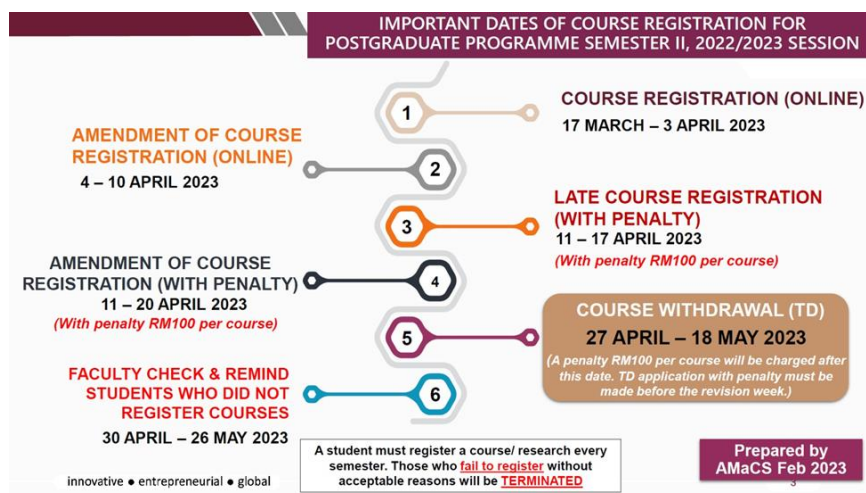


Figure 2: Courses Registration for semester 2, 2022/2023

Progress Report

Students must submit a progress report describing research progress each semester. Progress reports must be submitted online at the Graduate Studies Management System (GSMS). GSMS can be accessed through the link provided in the MyUTM portal <https://my.utm.my/login>. Students need to alert the date announced by the academic office regarding the progress submission date.

Proposal Defense

Students who have completed and passed the Research Methodology and General University course are eligible to sit for a proposal defense in Semester 3 or compulsory in Semester 4. Students need to send an email to the office at academic-fm@utm.my to obtain an application form for a proposal. defense. The research title, abstract, three examiners' names and the supervisor's signature must be completed before submitting the form to the office in the 2nd week of semester 3.

The proposal defense report must be in UTM Thesis format and contain 3 chapters as follows:

- Chapter 1 - Research motivation, research problem, research statement, research question, research objective, significance, and research scope.
- Chapter 2 – Literature review on related topics, previous studies, research gaps, proposed solutions (models or frameworks) and arguments (hypotheses or propositions)
- Chapter 3 – Research approach, study design, instruments for data collection, and references.

Students who fail to submit the proposal in Semester 4 will receive an unsatisfactory result (TM).

Notice of Thesis Submission (NHT)

Students who are in Semester 6 and already write 90% of the thesis and publish 1 WoS journal or 2 Scopus journals are eligible to submit NHT. NHT can be submitted through GSMS 3 months before the thesis submission. Three names of external examiners and three names of internal examiners must be identified and discussed with the supervisor prior to GSMS submission.

Students can submit a thesis in UTM Thesis Format for viva-voce after meeting all the above criteria, passing the Turnitin plagiarism check, being free of tuition debt, and paying the viva fee.

Deferment of study

Students can apply for deferment of studies with reasons that can be accepted and confirmed by an authorized officer. The reason for deferment can be due to health problems, natural disasters, epidemics, and other reasonable reasons. Deferment can be made in 1 semester and cannot be in 2 consecutive semesters because it will cause unsatisfactory (TM) result. All deferral applications will be discussed in faculty academic meeting and the decision whether approved or not will be communicated to the student. The types of deferment reason that will be counted or not for the semester are shown in Figure 3.

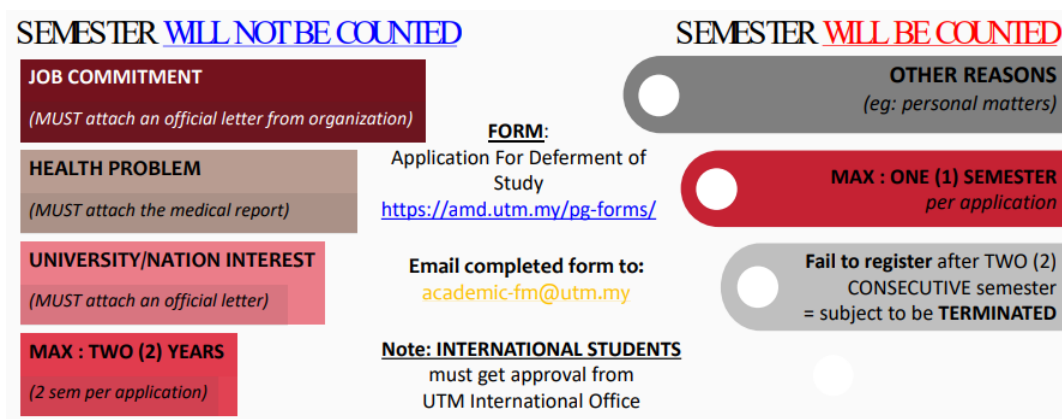


Figure 3: Types of Deferment Reason for Semester Counted or Not

Resources:

Information on academic-related resources below can be accessed through:

SRAD:
(Student Recruitment & Admission Division)
Level 2, Wing A, Block F54, UTM JB
<https://admission.utm.my/>

AMD:
(Academic Management Division)
Ground Floor, Wing A, Block F54,
UTM Johor Bahru
<https://amd.utm.my/>

SPS:

(School of Graduate Studies)

Level 2, Wing B, Block F54, UTM JB

<https://sps.utm.my/>

- ACADEMIC CALENDAR: <https://amd.utm.my/academic-calendar/>
- WORK SCHEDULE: <https://amd.utm.my/work-schedule-pg/>
- COURSE REGISTRATION: HOW TO DO COURSE REGISTRATION (<https://amd.utm.my/>)
- ACADEMIC MATTERS: FORM AND MANUAL (<https://amd.utm.my/pg-forms/>)
- PROGRESS REPORT FOR RESEARCH STUDENTS: <https://my.utm.my/home> - GRADUATE STUDIES MANAGEMENT SYSTEM (GSMS): <http://spsapp3.utm.my:8080/gsmv4/>
- UNIVERSITY GENERAL COURSE: CLASS SCHEDULE: SPS - CURRENT STUDENTS - ACADEMIC RELATED RESOURCES - ACADEMIC CALENDAR AND WORK SCHEDULE: <https://sps.utm.my/academic-related-resources/>

~ ~ Good Luck and Enjoy your study at FM ~ ~