ABOUT UNIVERSITI POLY-TECH MALAYSIA

Universiti Poly-Tech Malaysia, also known as UPTM, is an institution of higher learning has built itself upon years of continuous improvements and change leading to a wealth of experience and wisdom.

At UPTM, the focus is on providing a comprehensive education that goes beyond theoretical knowledge to include the development of essential human attributes, attitude, and aptitude. The university's committed educators work tirelessly to ensure that every student receives personalised attention and support that enables them to realise their full potential.

UPTM's curriculum is anchored in contemporary technologies and business education, offering students a wide range of innovative courses that challenge and stimulate their skills and expertise essential for them to thrive in the fast-paced world of business. It is important to note that Poly-Tech, in this context, refers to the incorporation of cutting-edge technologies into business education, and should not be confused with technical or vocational education.

On the overall, the university’s emphasis is on producing graduates who are not only highly skilled and knowledgeable, but also possess the essential qualities of professionalism, ethical responsibility, and social awareness. With its unwavering commitment to academic excellence, UPTM stands out as an institution of higher learning that prepares students for successful careers and meaningful lives.

VISION

To become a university of choice in nurturing professionals impacting the nation.

MISSION

- Develop ethical, holistic and balanced professional
- To utilize knowledge and innovative contemporary technologies to contribute towards the development of the nation.

MOTTO

Trusted ● Caring ● Resilient ● Respected

OBJECTIVES

- To provide opportunities to pursue professionally recognised programmes.
- To provide vibrant and invitational programmes relevant to current market needs and customers' demands.
- To design programmes that inculcate graduates' synergetic talents.
- To ensure that graduates are adequately prepared for the local and global workforce.
- To establish human resource development programmes as tool for assimilating the value of society.
- To establish a distinctive and accountable centre of excellence in managing research, consultation and services.

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MESSAGE FROM THE PRESIDENT

I am honored to welcome you to the University Poly-Tech Malaysia (UPTM), an esteemed academic institution based at the heart of the capital city of Malaysia. As the President of UPTM, I am excited to invite you to join our community of scholars, where you will have the opportunity to develop into ethical, holistic, and balanced professionals who can impact the nation positively.

UPTM has undergone a remarkable transformation from a college to a university college and now a full-fledged university. This growth is a testament of our commitment to academic excellence and our dedication in providing a conducive learning environment. Our vision is to become a university of choice in nurturing professionals who can make a difference in society. We aim to achieve this by providing our students with the necessary skills, knowledge, and values to excel in their chosen fields.

At UPTM, our mission is to develop ethical, holistic, and balanced professionals who can contribute to the development of the nation using knowledge and innovative contemporary technologies. We strive to ensure that our graduates possess the necessary skills to thrive in a competitive global environment. Our curriculum is designed to challenge our students while also nurturing their intellectual curiosity.

Our university's core values are based on trust, care, resilience, and respect, which guide us in all our interactions with students, faculty, and staff. We pride ourselves on our inclusivity, diversity, and the community of scholars that we have built over the years. We are confident that you will find a home at UPTM, where you can grow and learn alongside other ambitious students.

I welcome you to explore our website and learn more about UPTM. Our dedicated faculty and staff are always to answer any questions you may have about our programs, admissions process, or campus life. We hope to hear from you soon and look forward to welcoming you to our university.

Sincerely,

President
University Poly-Tech Malaysia

INTRODUCTION

Master of Science in Information Systems integrates Information Technology, Business Studies and Computer Technology fields. The students will be introduced to the concepts, application and the latest trends in IT and business management. Also, it prepares students to understand the architecture and basic structure of information system within a business organization. The courses in this program aims to provide new knowledge in the perspective of merging three important elements in business organization which are business knowledge, information systems and IT.

The programme intended to produce innovative and creative graduates, who have acquired the professional expertise, intellectual skills, and entrepreneurship traits to embark on a rewarding career in the related fields or further study at post-graduate level.

PROGRAMME INFORMATION

1.	Programme Title	:	Master of Science in Information Systems
2.	Programme Code	:	CT301
3.	Duration	:	1 year 4 months
4.	Total Credit Hours	:	43
5.	Medium of Instruction	:	English
6.	Entry Requirement	:	A bachelor's degree with a minimum CGPA of 2.75 in computing or related areas OR A bachelor's degree or equivalent with minimum CGPA of 2.50 in computing or related areas and not meeting CGPA of 2.75, can be accepted subject to rigorous internal assessment OR A bachelor's degree or equivalent not meeting CGPA of 2.50, can be accepted subject to a minimum of 5 years working experience in computing or relevent fields AND *Additional requirement for International students :* • *Test of English as Foreign Language (TOEFL) with minimum score of 550* *OR* • *International English Language Testing Services(IELTS) with minimum score of Band 6.0*
7.	Programme Educational Objectives	:	

Master of Science in Information Systems programme aims to produce information systems practitioners who:

PEO1 : have advanced knowledge in the field of information systems, capable of adopting best methodologies and techniques as well as advanced numerical techniques and digital technologies to provide innovative solutions for current issues in computing.

PEO2 : lead with autonomy as well as communicate and interact effectively with internal and external stakeholders.

PEO3 : uphold and defend ethical and professional practices in maintaining self and profession integrity.

PEO4 : have positive attitudes, commitment for lifelong learning and entrepreneurial mind-set for self and career progression.

8. Programme Outcomes :

Upon completion, the Master of Science in Information Systems programme will produce graduates who are able to:

PLO1 : integrate advanced knowledge related to current research issues in computing.

PLO2 : recommend innovative computing solutions that is at the forefront of developments in information systems.

PLO3 : demonstrate practical skills in evaluating and using computing solutions and tool in terms of their usability, efficiency and effectiveness.

PLO4 : utilise advanced digital and numeracy skills to acquire, analyse and extend knowledge in information systems.

PLO5 : interact and communicate effectively either individually or through multi-disciplinary team with good interpersonal skills in delivering services related to information systems to stakeholders.

PLO6 : demonstrate leadership with responsibility and autonomy in providing services related to information systems.

PLO7 : uphold professionalism and ethics in conducting research and maintain the good image of the profession when delivering services related to information systems at all times.

PLO8 : exhibit positive attitude and commitment to life-long learning with entrepreneurial mind-set in response to the changing world of information systems.

9. Awarding Body : Universiti Poly-Tech Malaysia

10. Programme Standards : Computing (2015)

PROGRAMME STRUCTURE

MASTER OF SCIENCE IN INFORMATION SYSTEMS

Year 1 Semester 1:

COURSE CODE	COURSE NAME	STATUS	CREDIT	SLT	PRE-REQ	ASSESSMENT	
						Course Work	Final Assessment
ITC 4164	Strategic Planning for Information Systems	Common Core	4	160	None	80	20
ITC 4284	Advanced Business Process Management	Common Core	4	160	None	80	20
ITC 3124	E Commerce	Common Core	4	160	None	60	40
	Total		**12**				

Year 1 Semester 2:

COURSE CODE	COURSE NAME	STATUS	CREDIT	SLT	PRE-REQ	ASSESSMENT	
						Course Work	Final Assessment
ITC 4224	Strategic Supply Chain Management	Common Core	4	160	None	60	40
ITC 4294	Business Case for IT projects	Common Core	4	160	None	60	40
	Total		**8**				

Year 1 Semester 3

COURSE CODE	COURSE NAME	STATUS	CREDIT	SLT	PRE-REQ	ASSESSMENT	
						Course Work	Final Assessment
ITC 4263	Enterprise Architecture	Discipline Core	3	120	None	60	40
ITC 4163	IT Management			120	None	70	30
ITC 4174	Research Methodology	Common Core	4	160	None	60	40
ITC 4183	Knowledge Management	Discipline Core	3	120	None	70	30
ITC 4193	Innovation Management			120	None	70	30
ITC 4203	Information Service	Discipline Core	3	120	None	60	40
ITC 4213	Software Project Management			120	None	70	30
	Total		**13**				

Year 2 Semester 1:

COURSE CODE	COURSE NAME	STATUS	CREDIT	SLT	PRE-REQ	ASSESSMENT	
						Course Work	Final Assessment
ITC 4250	Project	Common Core	10	400	None	80	20
	Total		**10**				

COURSE INFORMATION

STRATEGIC PLANNING FOR INFORMATION SYSTEMS (ITC 4164)
Prerequisite: None
This course will expose the students on how to integrate the concepts and methodologies with skills acquired in the field of information systems and technology in the development of a comprehensive information systems prototype. The course will also enable students to learn to manage information systems effectively based on an understanding of their organization's functional and operational requirements. Additionally, student will learn the implementation of information systems that provide advantage over competitors, also the importance of strategic information systems management.

ADVANCED BUSINESS PROCESS MANAGEMENT (ITC 4284)
Prerequisite: None
This course will expose the students to Business Process Management (BPM) concepts, methods and tools. This will include the definition, implementation, measurement and improvement of processes in organizations. Also, the subject will give highlights on mature organizational transformation concepts which BPM is based on (Business Process Reengineering, Six Sigma, Total Quality Management) and process-supporting technologies such as workflow management, process analysis and automation suites, and service-enabled systems.

E-COMMERCE (ITC 3124)
Prerequisite: None
This course will expose the students with the E-commerce success factors. Starting with the concepts and how it evolve over the decade, including key moments in the development of its infrastructure. The features are also will be discussed and specific business models against traditional commerce. The issues of security, privacy are also explained.

STRATEGIC SUPPLY CHAIN MANAGEMENT (ITC 4224)
Prerequisite: None
The course aims to provide understanding on the operations and structure of any supply chain. It covers the competitive advantage that can be gained through good supply chain management, the importance of the use of IT and IS in managing a supply chain and the best practices in supply chain management. Case studies will be used to demonstrate how companies are using various drivers to improve their supply chain performance.

BUSINESS CASE FOR IT PROJECTS (ITC 4294)
Prerequisite: None
The course covers the approaches to analyse and build a business case for IT projects in meeting organization's needs. It provides a framework for delivery and performance monitoring of a project. A good business case enables organization to make better decisions that is aligned with business requirements and drivers.

ENTERPRISE ARCHITECTURE (ITC 4263)
Prerequisite: None
This course introduces the architecture continuum and the relation between software, applications, technology and solution. It covers on the evolution of enterprise architecture concepts focusing on business, technology and strategy perspectives. It also includes architectural styles and their role in meeting architectural requirements.

IT MANAGEMENT (ITC 4163)
Prerequisite: None
This course introduces the key aspects involved in managing resources of an organisation with information technologies. It covers reviews of best-practice, strategic and practical considerations in an organisation's use or implementation of such technologies. It develops further knowledge of managing IT departments/divisions, systems development and service delivery, ICT auditing and business analysis, general IT management processes, as well as governance responsibilities and outsourcing organisations.

RESEARCH METHODOLOGY (ITC 4174)
Prerequisite: None
This course offers a design research methodology intended to improve the quality of design research - its academic credibility, industrial significance and societal contribution by enabling more thorough, efficient and effective procedures.

KNOWLEDGE MANAGEMENT (ITC 4183)
Prerequisite: None
This course introduces concepts of knowledge management (KM). It integrates theory with practice to prepare current and future leaders to manage knowledge and to lead people in organizations. It covers integral concepts of KM and look at organizational and societal KM from HR, IT, personal strategic, and general management perspectives.

INNOVATION MANAGEMENT (ITC 4193)
Prerequisite: None
The course focuses on the practices and processes that managers use to manage innovation effectively. It covers four aspects of technological innovation: exploring, executing, leveraging and renewing innovation. Case studies and analysis will look into innovation practice on entrepreneurial firms (new and established) and on firms that have been successful and unsuccessful in their innovation.

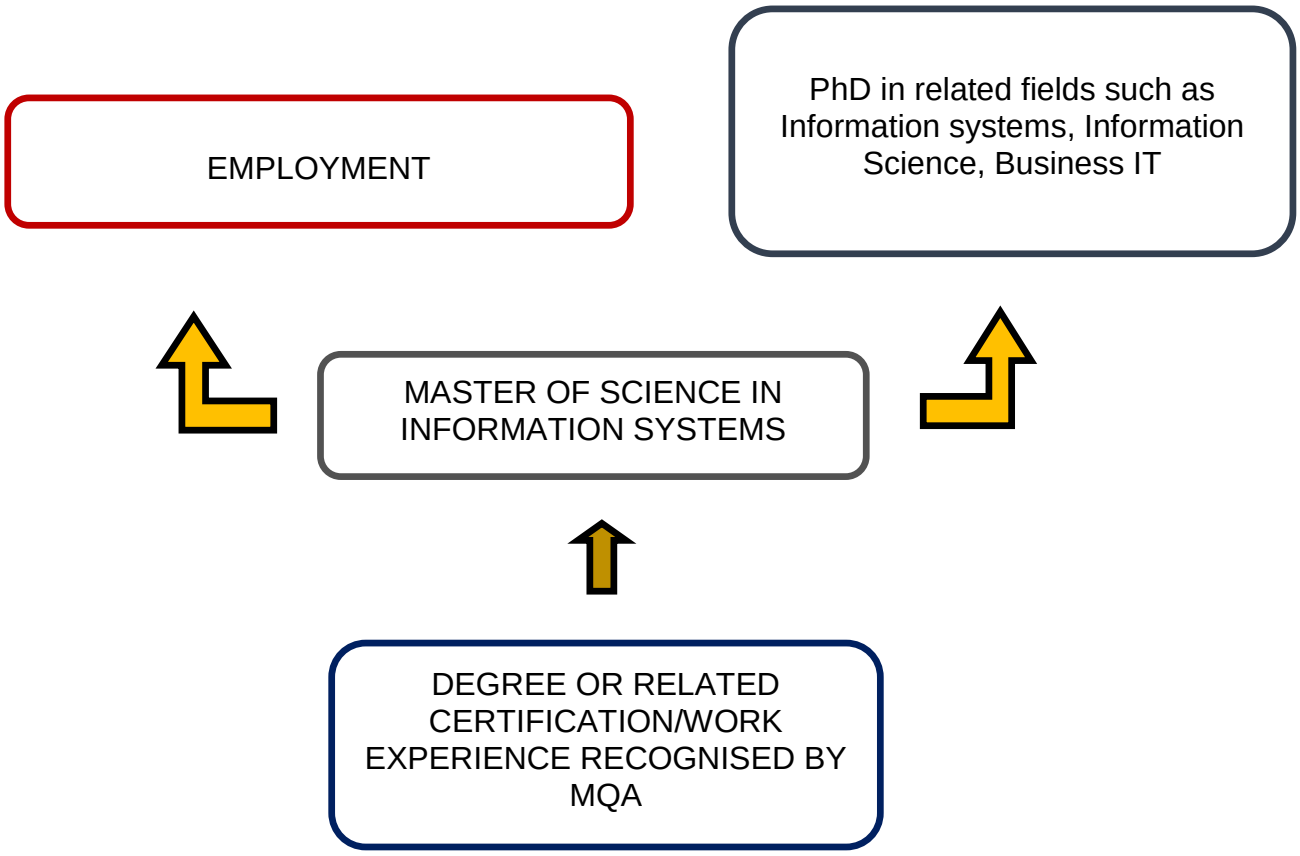
INFORMATION SERVICE (ITC 4203)
Prerequisite: None
This course introduces the theory and practices of information services. It focuses on the role played by information services and professionals to help diverse users define and negotiate their information needs, navigate user-system interfaces, formulate effective search strategies for information retrieval, and evaluate and select information. It also covers the skills necessary to plan for, implement, and evaluate the delivery of information services in a wide variety of organizational contexts as well as the ethical aspect of information services.

SOFTWARE PROJECT MANAGEMENT (ITC 4213)
Prerequisite: None
This course exposes project management skills to better manage IT projects. Built along the IT project management lifecycle, this course covers detailed topics of the basic concepts of IT project management, including initiating, planning, controlling, executing and closing projects. The course also shows how IT projects should be managed from inception to post implementation review. This course will improve management skills and abilities to define the project scope, create a workable project plan and manage within the budget and schedule.

PROJECT (ITC 4250)
Prerequisite: None
This course introduces students to carry out a research project. It provides student with the necessary skills associated with producing a research report and disseminating the research information to a wider audience.

STUDY PATH

MASTER OF SCIENCE IN INFORMATION SYSTEMS (CT 301)



ACADEMIC PLANNER

ACTIVITY	Long Semester	Short Semester
	Day / Week	**Day / Week**
Registration (New Students)	Day 1	Day 1
Induction	Day 2	Day 2
Add/Drop Week	Week 4	Week 2
Lectures	Week 1 - 7	Week 1 - 7
Mid-Semester Break	1 Week	
Lectures	Week 8 – 14	
Revision Week	2 Days	2 Days
Final Examination	3 Weeks	1 - 2 Weeks
Semester Break	2 - 3 Weeks	2 - 3 Weeks

Note: Actual academic calendar can be accessed in the UPTM website at www.uptm.edu.my.

- The University reserves the right to make any changes to the academic calendar when necessary. Students are advised to be aware of announcements regarding changes at all times.

ACADEMIC REGULATIONS

- All UPTM students are subjected to the academic rules and regulations as outlined in the Academic Regulations of Universiti Poly-Tech Malaysia (UPTM) (2023 Amendment). A copy of this academic rules and regulations can be accessed in the UPTM website at www.uptm.edu.my.

- All UPTM students pursuing academic programmes in collaboration with professional, local or foreign partner institutions are also subjected to the rules and regulations of the partner institutions. A copy of this handbook can be accessed in the UPTM website at www.uptm.edu.my