THE HONG KONG POLYTECHNIC UNIVERSITY
香港理工大學

Department of
Industrial &
Systems
Engineering
工業及
系統工程
學系

MASTER of SCIENCE in KNOWLEDGE and TECHNOLOGY MANAGEMENT

知識及科技管理理學碩士課程

(Programme Code: 45100-MT/MTT)

Leveraging Knowledge-Driven Technologies for Business Success

Aims and Visions

Introduction

Knowledge and Technology Management (KTM) is vital to various aspects of business– from financing, development of products and services, manufacturing to licensing and commercialization of technology. Many enterprises, local and international, have leveraged successfully on KTM to ensure their competitiveness and innovations in the new economy. This is achieved by, among other things, minimizing "reinventing the wheel', enhancing the flow of knowledge, harnessing and sharing of critical thinking, and providing a learning environment for people.

The programme is designed with a broad-based and multi-disciplinary curriculum to suit professionals from various disciplines. It is built on a practical framework that provides a forum for participants to develop an awareness of the range, scope, and complexity of the phenomena, issues, and problems related to managing the dynamics of new technology and to extend the skills required to meet these challenges.

Characteristics

The programme is suitable for professionals in a variety of sectors, including management, IT, engineering, library science, legal, public utilities, and finance who desire to improve their competency in managing their workforce and operations. It provides a unique and flexible opportunity for participants, with diverse backgrounds to customise their learning in areas of technology and innovation based on their professional needs. The aims of the programme are to enable participants to:

- Develop their competence in understanding innovation cycles and ultimately turn innovations into commercial successes;
- Understand the financial and strategic implications of the development, acquisition, and implementation of knowledge and technology in an organisation;
- Enhance their technical and non-technical awareness of knowledge and technological development in their chosen field of interest.

Programme Structure

The programme curriculum consists of Compulsory, Core and Elective Subjects. Students must complete with a total of 30 credits:

- 7 taught subjects, including 4 Compulsory Subjects, at least 1 Core Subject and at most 2 Elective Subjects and a Dissertation; OR
- 10 taught subjects, including 4 Compulsory Subjects, at least 3 Core Subjects and at most 3 Elective Subjects.

Subject List

Compulsory Subjects

(ISE5001)	Technology Transfer and Commercialisation
(ISE542)	Managing Knowledge
(ISE549)	Management of Innovation and Technology
(ISE5601)	Managing & Measuring Intellectual Capital

Core Subjects

(ISE5002)	Field Study of Technology Organisations*
(ISE5021)	Technology Project Management
(ISE518)	Workflow Design and Management
(ISE525)	Global Operations and Logistics Management
(ISE559)	Technology Audit and Assessment
(ISE5606)	Business Intelligence and Data Mining

Elective Subjects

(ISE5018)	Intellectual Property Management and Strategies
(ISE5022)	Financial Decision Analysis for Technology Management
(MM5112)	Organization and Management
(LGT5015)	Supply Chain Management
(LGT5105)	Management Operations Systems

* Students pursuing the MSc award must take this subject if they do not opt for the dissertation.

🏫 Reimbursable courses for Continuing Education Fund (CEF)

Some Key Information

Admission

A Bachelor's degree in engineering, business or science, or a professional qualification, or the equivalent. Consideration will be given to candidates with appropriate working experience.

English Language Requirement

For applicant whose first degree was not taught in English, TOEFL score 550 or above (paper-based test); or TOEFL score 80 or above (internet-based test); or IELTS 6 or above is required.

Subject Delivery

Delivery of subjects is via a combination of lectures, seminars, workshops and field trips outside Hong Kong. Some compulsory and core subjects are offered on Saturdays / Sundays to minimise disturbances to students' daily work. Other subjects are normally offered on weekday evenings.

Duration

Full time (1 – 1.5 Years)
Part time (2 – 2.5 Years)

Programme Website

www.polyu.edu.hk/ise/mscktm

Enquiries

Application and Admission

Email: ar.tpg@polyu.edu.hk
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