

consumer behaviour, marketing mix management, marketing planning, strategic planning and development of business plans. It adopts a case study approach to relate students with the real world situation.

MFFM 7010 Topics in Probability Theory and Stochastic Processes (3,3,0)

Topics from conditional expectations, Markov chains, Markov processes, Brownian motion, and martingales, and their applications to stochastic calculus.

MFFM 7020 Derivatives I (3,3,0) (E)

An introduction to the theory and practice of pricing and hedging of derivative securities. Coverage of equity and index, foreign currency, commodity, and interest-rate derivatives. Basic mathematical concepts and the institutional structure of derivative markets are discussed.

MFFM 7030 Computational Finance (3,3,0)

Basic numerical methods, (floating-point arithmetic, numerical linear algebra, solutions of non-linear equations, interpolation, curve fitting, splines, differentiation, integration, Monte-Carlo methods, ordinary differential equations) numerical solutions of PDEs (finite-difference methods for parabolic PDEs, stability, convergence, applications to Black-Scholes equations, free-boundary problems, applications to pricing American options) and probabilistic methods (random variables, generation, Monte-Carlo simulation, binomial tree models, stochastic differential equations).

MFFM 7040 Time Series Analysis (3,3,0)

Covers various kinds of time series models, including ARIMA, GARCH, unit roots and co-integration, and vector autoregressive models. Students will gain hands-on experience with all models learned in this course.

MFFM 7050 Mathematical Finance (3,3,0)

Topics from replication of trading strategies, arbitrage, completeness, martingale representation theorem, fundamental theorem of finance, stochastic differential equations, and Black-Scholes formula of option pricing.

MFFM 7060 Derivatives II (3,3,0)

Coverage of exotic options, discrete and continuous pricing models, and pricing techniques. Develops the economic foundations of the theory of derivatives and a mathematical toolkit to analyse standard instruments and “dissect” exotic ones.

MFFM 7070 Quantitative Methods (3,3,0) (E)

Statistical concepts and simulation methods are introduced. Use statistics and simulation software as a computational aid to carry out the computation. The students will learn how to organize and analyse data with the guidance of statistical concepts and methods. This module also introduces the ideas on how to choose appropriate statistical and simulation methods to deal with the finance problems of interest.

MFFM 7080 Fixed Income Markets (3,3,0) (E)

Provides a quantitative approach to fixed income instrument use. Covers the mathematics of bond pricing, term structure analysis, and pricing of credit risk. Trees and Monte Carlo methods of valuation are presented.

MFFM 7090 Foundations of Finance (3,3,0) (E)

Study of financial decision-making processes within a firm. Emphasis on applications and strategic planning in investment, financing, dividend, and working capital decisions. The course also covers market microstructure, including participants, exchange structure, trading platforms, and liquidity and volatility issues related to exchange and off-exchange trading.

MFFM 7100 Risk Management (3,3,0) (E)

Risk managers have to determine which risk a firm is exposed to, and must choose which risk to keep, which to shed, and which to hedge. The emphasis of this course is on state-of-the-art risk management practices. This course will introduce the different risk sources which are quantified and managed by financial institutions. Topics covered will include market risk, credit risk and operational risk. Special attention is also paid to the various products in the financial markets with emphasis on their valuations and models. The course will also cover some case studies that help to understand the financial crisis.

MFFM 7110 Financial Data Modelling (3,3,0) (E)

Study of financial tools in swaps and volatility trading using nonlinear instruments and engineering convexity. The course also covers event correlation and correlation trading strategies.

MFFM 7120 Corporate Finance (3,3,0) (E)

The course provides an introduction to security analysis and portfolio management. The focus is placed on the financial theory and analytical tools for making investment decisions. The course covers a broad range of topics including the financial markets and instruments, portfolio theory and asset allocation, the capital asset pricing model, multifactor pricing model and their applications, market efficiency and behavioural finance, stock valuation techniques, performance evaluation and portfolio management.

MFFM 7130 Legal, Regulatory and Ethical Aspects of Financial Engineering (3,3,0) (E)

Coverage of the legal, regulatory and compliance aspects of derivative use and the current legal standing of derivatives and regulatory issues associated with derivatives. The issues of risk measurement, risk oversight, and transparency of derivatives markets and disclosure issues are covered.

MGNT 7080 Managing People in the Public Sector (3,3,0)

Public personnel management is widely recognized as a critical element of democratic society and effective public administration of a given city. Today, government and non-profit organizations are confronted with tighter budgets with limited funding and keener competition in the labour market. Recent changes in information technology, communication patterns, social issues, and demographic compositions have resulted in an increasingly use of privatization of some services such as outsourcing, franchise agreements, vouchers, and contracting. This course introduces to students, in addition to all relevant HRM issues and functions, major organizational behaviour theories and concepts.

MGNT 7090 Strategic Management and Business Policy (3,3,0)

Strategic Management is a big picture course that builds upon diverse business fields such as management, economics, marketing, finance, and accounting, among others. This course deals with an organization's overall postures from both inside and outside. It provides students with an integrative learning experience by applying what they have learned in their separate functional courses. The purpose is to help students develop strategic management knowledge and skills, gain experience in using the tools for strategic analysis, and apply the concepts to the real world situation. The case analysis is used extensively, and the focus is on how media companies and obtain a sustainable competitive advantage.

MGNT 7110 Board Structure, Process and Leadership (4,4,0) (E)

Company directors perform two major functions. The first is to make strategic decisions, such as setting their firm's long-term strategy and making investment and finance decisions. The second is the monitoring function, such as appointment of

top-level executives, determining their compensation schemes, replacing them if they perform unsatisfactorily, and monitoring capital allocation decisions. The effectiveness of directors to execute these functions depends, to a large extent, on the board structure and how these directors carry out their duties. This course aims to enable students to understand the nature, functions and operations of a board of directors. Since these features may vary depending on the board systems adopted, this course also discusses the major board of directors systems around the world. Board structures discussed in this course include the ratio of independent non-executive directors, board size and the formation and composition of various committees such as audit committee, compensation committee, etc. The relationships of these structures and the corporate performance are analysed. The roles of the board in risk management, strategic management and leadership are also discussed. The course further identifies the major board processes that affect the functioning of a board.

MGNT 7170 Change Management (3,3,0) (E)

Students will learn about issues that deal with corporate restructuring due to mergers, acquisitions, downsizing, outsourcing and ethical concerns. They will also acquire skills in organizational change, in working with external consultants and in developing desirable work cultures. At the core of any major change programme is the process of strategic human capital formation. In fact, in a period of major change there is even more likely to be an explicit process of strategy formation that requires careful diagnosis. This course focuses on this diagnostic function, with the view to creating organization-wide change initiatives relevant to Asia.

MGNT 7200 Degree Project: Creating and Sustaining the Knowledge-based Organization (3,3,0) (E)

This final topic will focus all previous studies into a concrete plan to create viable learning organizations, capable of sustained innovation and adaptation necessary to compete successfully, not only within the Asia/Pacific region, but in a globalized environment. Here, students will be exposed to advanced concepts of strategic and operational organizational management, combined with HR projects that advocate constant renewal of human capital and employee involvement. While other courses have provided the necessary background, this capstone course will allow the students to develop the holistic outlook necessary to implement these concepts in pragmatic settings and to deal with current issues, within an action research setting.

MGNT 7230 Managing People (3,3,0) (E)

For most students, this course will be very different from any that they have taken before. The emphasis will be on developing an awareness of their own skills of managing people and systematically working through a number of readings, cases, and exercises that will lead them to become more effective. The class is highly interactive and intensive, and students will work on an individual project to document skill improvement at their current level of competence in managing people to achieve results.

MGNT 7240 Strategic Management (3,3,0) (E)

Strategic Management is a big picture course that builds upon diverse business fields such as management, economics, marketing, finance, accounting, among others. This course deals with an organisation's overall postures from both inside and outside. It provides students with an integrative learning experience by applying what they have learned in their separate functional courses. The purpose is to help students develop strategic management knowledge and skills, gain experience in using the tools for strategic analysis, and apply the concepts to the real world situation.

MGNT 7250 Leadership and Organizational Development (3,3,0) (P)

Due to constant changes in the market, a corporation often needs to restructure itself in order to remain its own compatibility and success. At the same time, the corporate leader has a vital role in

developing the organization to its next level of success. Leadership is a process of influence in which one enlists the assistance and support of others in achieving a planned goal. Thus, for a company to successfully implement any organizational change initiative, it is a must that effective leadership is developed and in place in order to get the job done. This course helps to increase the knowledge of the students on how leadership can be developed and its role in organizational development. The first part of this course includes various leadership theories approaches, models and skill sets. For the organizational development part, students will gain understanding on important determinants, key components, and success factors of an effective organization developmental process.

MGNT 7260 Seminar in Advanced Management Topics (3,3,0)

In this course, students will examine recent developments, key contemporary management issues, and current management literature with the aim of consolidating management and organizational concepts.

MGNT 7270 International Management (3,3,0)

This course focuses on how the process of managing applies across national and cultural boundaries, especially with a regional perspective. The emphasis is not only on multinational corporations and their managerial activities, but all types of international business operations and their environmental issues are covered.

MGNT 7280 Managing Change (3,3,0) (P)

Managing change has become the norm in today's turbulent business environment, and almost all organizations have faced large-scale changes. The current challenge, and the one addressed in this course, is to find ways to manage the change process more effectively. Using a case-based approach, we consider the common types of changes organizations pursue and what it means to manage those changes. The focus is on key, interrelated issues of when to change, how to enable change, and reacting to change.

MGNT 7290 Chinese Wisdom and Management (3,3,0)

Prerequisite: MGNT 7040/7270 International Management, or MGNT 7230 Managing People, or MGNT 7250 Leadership and Organizational Development

Traditional Chinese culture holds a reservoir of wisdom of the Chinese nation. To meet the challenges of the 21st century and to make firms more competitive, managers can seek wisdom from Confucius (孔子), Laozi (老子), Zhuanzi (莊子), Sunzi (孫子), Hanfeizi (韓非子) and other traditional Chinese philosophers, focusing on the wisdom of how to manage a country. This course provides the students with a comprehensive understanding of traditional Chinese thoughts and management wisdom. Application of traditional Chinese wisdom to contemporary business management will be a primary focus, in addition to business ethics.

MGNT 7300 Chinese Wisdom and Modern Management (3,3,0) (P)

Prerequisite: MGNT 7040/7270 International Management, or MGNT 7230 Managing People, or MGNT 7250 Leadership and Organizational Development

現代管理學奠基於西方文化，源於希臘哲學與基督精神，重外物、個人、科學與智性邏輯分析；相對地，中華文化重內省、群體、人文與直覺感悟，代表著不同的宇宙和價值觀。近年中國的經濟騰飛，逐漸成為重要的市場與經濟體系，世界各大小企業蜂擁而至，但因為文化與價值觀不同，往往費時而失事。

現代管理者最重要的對象是人，是以必須要對文化與人性有透徹的瞭解、圓融古今中外、相輔相承，才能事半功倍。數千年的中華文化與歷史，就是活生生的管理個案，蘊含著寶貴的實踐經驗。本課程專為富有經驗的管理者與企業家，提高對中國文化的理解與實踐，探究中華智慧與中國式管理的有效實踐，使他們能面對龐大而瞬息萬變的中國市場的挑戰，靈活應變，得心應手。此課程主要分為「道」與「術」兩部分。「道」篇主要為中華哲學與智慧的基礎理念和管理「心法」；「術」篇則注重實踐與案