

## **Master of Science (MSc) Program in Engineering Enterprise Management**

### **Program Director:**

Neville Ka-Shek LEE, Associate Professor of Industrial Engineering and Logistics Management

In today's knowledge-based economy, companies and enterprises must compete relentlessly in terms of costs, quality and time to market themselves in the global context. Knowledge of cutting-edge management techniques, such as Logistics Management, Supply Chain Management, Six Sigma Processes, and knowledge in the effective deployment of information technology are necessary to help companies compete successfully in the global arena. In addition to these advanced management techniques, a good foundation in basic managerial training such as operations management, project management, people management and basic business management is essential in launching a management career.

This unique Master of Science (MSc) program in Engineering Enterprise Management is the result of collaboration between the School of Engineering and the School of Business and Management. It is specially designed for professionals with technical background who wish to launch or further their career in management. It provides the know-how and techniques from line management to middle management, and all the way to global enterprise management.

The program is designed for practicing engineers and scientists of all disciplines who wish to start a career in management. Industry managers who desire more advanced and up-to-date training to further their careers in future global enterprise - either in the service industry or manufacturing industries - can benefit from the program.

### ***Admission Requirements***

Applicants must possess a bachelor's degree preferably in Science or Engineering, or an equivalent qualification from a recognized university.

### ***Program Duration***

The program can normally be completed in one year in full-time mode, or two years in part-time mode. All lectures will be delivered at HKUST. Classes will be held in weekday evenings and/or weekends.

### ***Program Fee***

The program fee is HK\$98,000. New students admitted with credit transfer are also required to pay the full program fee. Students who take additional courses or need to retake any courses are required to pay additional fee.

### **Curriculum**

The program comprises a total of 30 credits of coursework. Students are required to take:

- 1 credit of EEMT 5990 Problem Solving for Engineering Managers; and
- 29 credits from the following course list:
  - EEMT 5100 Principles and Techniques for Technical Management
  - EEMT 5120 Operation/Production Management
  - EEMT 5160 Transportation and Logistics Management
  - EEMT 5220 Six Sigma Quality Management
  - EEMT 5260 Product Development Management
  - EEMT 5300 Global Supply Chain Management
  - EEMT 5360 IT System for Global Enterprise
  - EEMT 5500 Engineering Statistics and Simulation
  - EEMT 5510 Engineering Economics and Cost Management
  - EEMT 5520 Service Operations Management
  - EEMT 5530 Financial Engineering and Risk Management
  - EEMT 6000 Special Topics in Engineering Enterprise Management
  - EEMT 6900 Independent Study
  - SBMT 5010 Accounting for Managers
  - SBMT 5020 Fundamentals of Economics and Finance
  - SBMT 5030 Marketing Management and Strategy

Subject to the approval of the Program Director and course instructor, students have an option to take a maximum of 6 credits of other postgraduate courses from outside this list.

Part-time students may take a maximum of 9 credits in each term.

### **Credit Transfer**

Credit transfer may be granted to students in recognition of studies completed successfully elsewhere. With the guidance of the Program Committee and upon the approval of the Program Director, a maximum of 6 credits may be transferred to the program, subject to University regulations governing credit transfer for postgraduate programs.

### **Graduation Requirements**

Students must complete the program with a graduation grade average (GGA) of 2.850 or above as required of all postgraduate students at the University. Students failing to meet the GGA requirement are required to repeat or take additional course(s) even if they attain passing grades for all courses.