Bachelor of Engineering in

Industrial Engineering & Engineering Management

I E E M

MAKING **SMART** DECISIONS

Engineering Management

- Computing in Industrial Applications
- E-Commerce
- Ergonomics & Safety Management
- Service Engineering & Management

*Subject to approval

OR

Logistics Management

- Design of Logistics & Manufacturing Systems
- Logistics & Freight Transportation Operations
- Routing & Fleet Management
- Supply Chain Management

+

Major Core

Engineering Fundamentals

Calculus & Programming

+

- Engineering Economics & Accounting
- Industrial Data Systems
- Integrated Production Systems
- Microeconomics

- Predictive & Prescriptive Analytics
- Probability & Statistics for Engineers
- Stochastic Models
- System Simulation

+

University Core Education

+

Industry-sponsored Final Year Thesis/Project

*We offer a flexible curriculum where students can declare their areas of specialization as early as their second year of study.

Industrial Engineering and Decision Analytics (IEDA) is...

Engineering of **making smart decisions** based on **domain-specific knowledge**, **data**, **model** and **analysis**.

Decision Analytics is ...

A systematic, **quantitative** and visual approach to make strategic business decisions with the emphasis on using **real-world / real-time data** and **statistical tools**.

Logistics Management is...

An effective and efficient management of the flow and storage of goods, information, money and people to satisfy customers' needs for tangible products & services.

Industrial Engineering is ...

Optimizing and **streamlining** various processes and systems to result in **efficient** and **effective** outcomes.

Engineering Management is...

A **combination of engineering and business management**, focusing on the application of scientific and technology management for design and performance analysis of systems, optimizing production planning and managing the quality.

Local Networking · Global Exposure

Mentorship Program
Keep abreast of the industry trends and expand your professional network by getting in touch with successful industry leaders and IEDA alumni!

International Exchange Program
Gain international exposure and broaden your horizons by taking part in the School of Engineering Exchange Program where you have chance to study in one of the top-notch engineering institutes across the globe.

Internship Program
Earn practical working experience and better pave your career path by working as a summer intern or one-year placement in sizable companies.

Case Competitions
Sign up for industry-sponsored contests to challenge yourself in applying theoretical knowledge into real-life business problems.

Program Features
- Top engineering school in Hong Kong (QS World University Rankings by Subject 2021)
- State-of-the-art and flexible curriculum
- Accredited by the
    - Hong Kong Institution of Engineers (HKIE)
        - Logistics & Transportation
        - Manufacturing, Industrial & Systems
    - Chartered Institute of Logistics and Transport in Hong Kong (CILTHK)

Exciting Career Opportunities
Our graduates will possess strong analytical skills as well as the ability to develop algorithms and simulation models for decision-making, launching a successful career as manager, engineers, consultants and analysts in a wide range of industries in the knowledge economy, including:

BANKING & FINANCE
• Goldman Sachs, Morgan Stanley, Credit Suisse, …

CONSULTING FIRMS
• Accenture, Arup, McKinsey, TQM Consultants, …

CONTAINER & AIR CARGO TERMINALS
• Cathay Pacific, HIT, HACTL,…

GLOBAL MANUFACTURERS
• Avery Dennison, Hilti, Esquel, …

GLOBAL LOGISTICS
• DHL, Kerry Logistics, Li & Fung, Maersk, P&G, …

INFORMATION TECHNOLOGY
• IBM, Cisco, …

ENGINEERING & TECHNICAL SERVICES
• Towngas, MTR, …

DEPARTMENT OF
Industrial Engineering & Decision Analytics

IEDA.HKUST   HKUST_IEDA   IEDA-HKUST   IEDA HKUST