

Alumni Sharing

“The beauty of IEDA lies in the seamless integration of engineering and business disciplines, offering unique cross-functional advantages. The comprehensive training in statistical modeling, machine learning, and financial principles has built a robust foundation, including analytical and critical thinking skills, which have enabled me to excel in the banking industry across business and technology domains.”

Terry Chu
Assistant Vice President, COO Office, Global Financial Market
DBS Bank
Class of 2018

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“Through the Industrial Engineering Department's sharing and networking sessions with alumni and mentors, I had the opportunity to connect with professionals in the logistics industry, gaining insight into real-world practices and challenges. These experiences broadened my perspective, complementing my academic studies and shaping me both professionally and personally.”

Andrea Hernández
Project Manager, Digital Transformation
Century Supply Chain Solutions
Class of 2019



Program Features



Accredited by the

- Hong Kong Institution of Engineers (HKIE)**
- Manufacturing, Industrial & Systems
- Logistics & Transportation (*BEng IEEM only*)
- Chartered Institute of Logistics and Transport in Hong Kong (CILTHK)**
(*BEng IEEM only*)

“**Making Smart Decisions**”

Local Networking Global Exposure

Peer Mentoring Program

Gain support from Peer Mentors who offer guidance to ensure a smooth transition into university life, helping you navigate academic challenges, adapt to campus life, and make new friends.

Mentorship Program

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



Internship Program

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

Overseas Exchange

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 170+ top-notch engineering institutes across the globe.

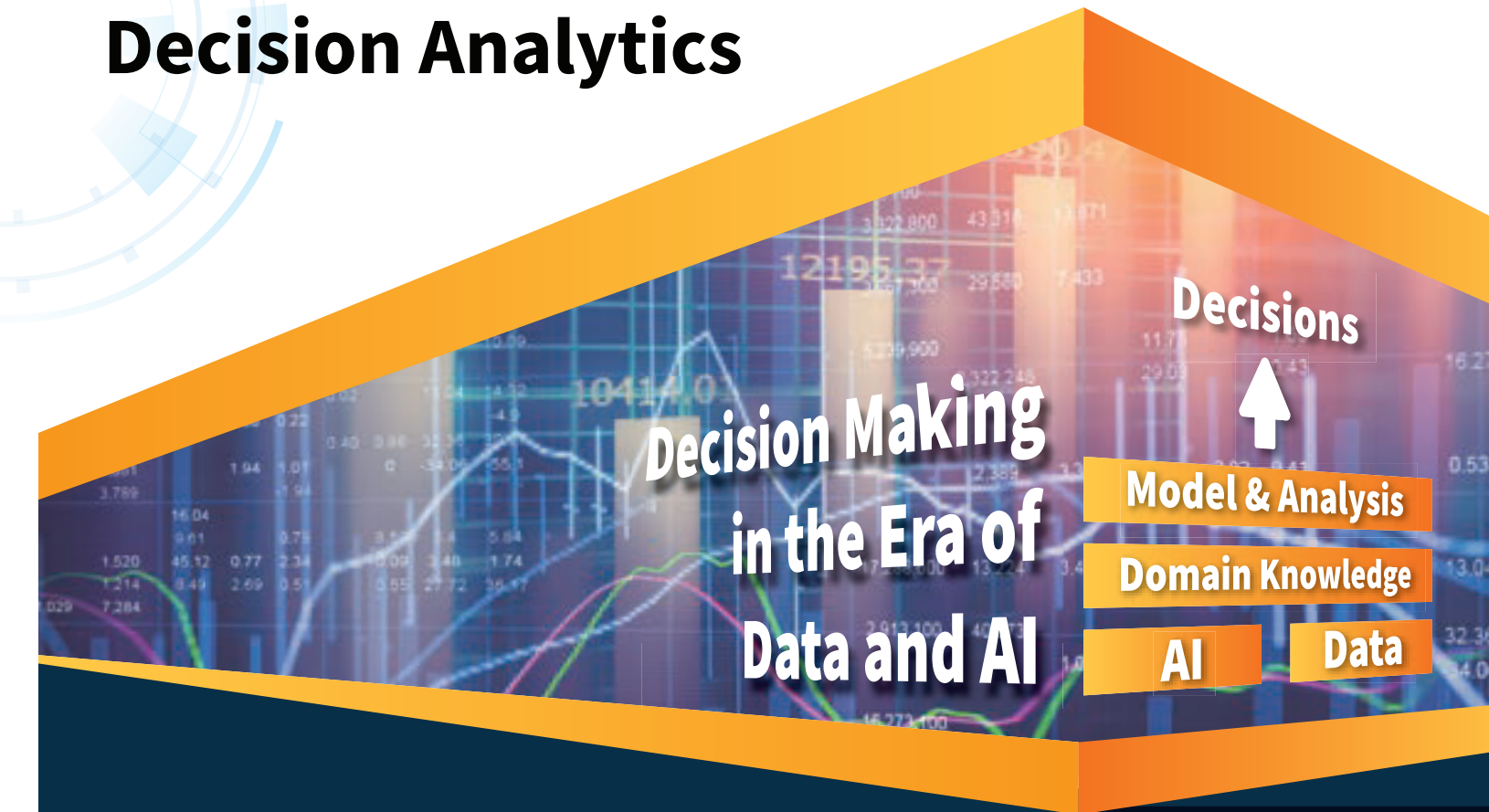
Case Competitions

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

Further Studies in Columbia University

The fast-track admission to the Master's programs in Columbia University's Industrial Engineering and Operations Research Department allows our students to pursue further studies at top institution overseas upon graduation.

Industrial Engineering and Decision Analytics



Bachelor of Engineering in Industrial Engineering & Engineering Management

Bachelor of Engineering in Decision Analytics

JUPAS Code: **JS5260 / JS5282**

Major Programs

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

BEng in Decision Analytics

Financial Engineering

OR

Consulting Services

An interdisciplinary subject which applies **quantitative tools and engineering methodologies** to solve finance-related problems.

EXAMPLES:
Design and pricing of financial options, Bitcoin, FinTech, Blockchain

YOU WILL LEARN:

- Blockchain
- Financial Service Operations
- FinTech
- Systems Risk Management

A broad area that includes revenue management, healthcare, service operations planning and capital allocation.

EXAMPLES:
Hotel room pricing strategies, waiting time at public hospitals

YOU WILL LEARN:

- Demand and Supply Analytics
- Dynamic Pricing
- Revenue Optimization
- Data Driven Supply Chain Management

BEng in Industrial Engineering & Engineering Management

Industrial Engineering & Engineering Management

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 flow and storage of goods, information, money and people effectively and efficiently.

EXAMPLES:
Optimal number of checkout counters in supermarkets, global supply chain management, inventory planning

YOU WILL LEARN:

- E-commerce
- Data Driven Quality Technology
- Modern Logistics, Routing and Fleet Management
- Integrated Production Systems
- Data Driven Supply Chain Management



Engineering Fundamentals

Major Core

AI-related electives

University Core Education

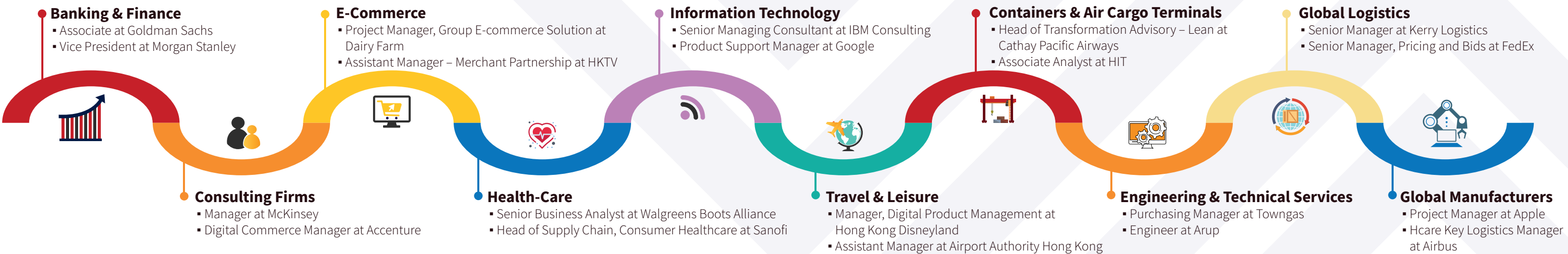
Industry-sponsored Final Year Thesis / Project

- Calculus
- Python

- Predictive & Prescriptive Analytics
- Probability & Statistics
- Stochastic Models
- Engineering Economics & Accounting

- Machine Learning
- Generative AI
- Large Language Model (LLM)
- Deep Learning

Exciting Career Opportunities



Future Analytics Leader Scholarship

To nurture the next generation of leaders in Decision Analytics and Financial Engineering, Future Analytics Leaders Scholarship is offered to students who demonstrate **exceptional academic performance** and place IEDA (JS5260) as their **Band A** JUPAS choice.



Learn more

Beyond regular admissions scholarships, recipients gain exclusive opportunities to *intern* at leading corporations, receive a bonus for *global exchange* applications, enroll in the elite program *BEng in Decision Analytics with a concentration in Financial Engineering*, and benefit from *dual mentorship* from faculty and industry leaders.

Admissions Requirements for 2026/27 Entry

Admissions via JUPAS

(1) School-based Admissions
Engineering with an Extended Major in Artificial Intelligence (ENGG+AI)
[JUPAS code: JS5282]
Please visit School of Engineering's website for more information.



(2) Department-based Admissions
Department of Industrial Engineering and Decision Analytics (IEDA)
[JUPAS code: JS5260]
Admissions is based on the Best 5 HKDSE subject results with subject weighting.
For JUPAS Score Calculator, please visit HKUST Undergraduate Admissions' website.



(For 2026 intake)	Subject	Minimum Grade	Subject Weighting
Core Subjects	Chinese Language	Level 3	N/A
	English Language	Level 3	2
	Mathematics (Compulsory Module)	Level 3	2
Elective Subjects	Citizenship and Social Development	Attained	N/A
	Best from:		
	▪ Biology / Chemistry	Level 3	1
	▪ Physics	Level 3	2
	▪ ICT	Level 3	1.5
	Best 2 other subjects:		
	▪ M1 / M2	Level 3	2
	▪ other subjects	Level 3	1

Admissions via non-JUPAS

For applicant with Qualifications other than HKDSE results, please visit HKUST Undergraduate Admissions' website for details.



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