

About PolyU ISE

Established in 1960, the Department of Industrial and Systems Engineering (ISE) emphasizes advanced manufacturing, engineering management, and intelligent design. Through our industry partnerships, we cultivate a dynamic environment that enables students to contribute to the region's technological advancement.

Our World Rankings

4th University Ranking by Academic Performance (2024/25) in the field of **Industrial & Manufacturing Engineering**

6th Best Global Universities Rankings (2025/26) by the U.S. News and World Report in the discipline of **Engineering**

Highlights of Student and Alumni Achievements

- The PolyU ISE Team won the Silver Award at the 8th Global Competition on Design for Future Education.
- Mr. Yat Wai Cheung (alumni) received a Merit Award at the HKIE-LTD Best Student Papers Awards 2024.
- ISE students won 1st Runner-Up in the Solidworks Design Competition 2024.
- ISE students were awarded Champion Team at the 2024 Hong Kong Logistics Case Competition & Workshop.
- Ms. Cadence Law (alumni) was honored with the Brilliant Innovation and Technology Talent Award in 2023.
- Ms. Haley Kwok Hin Chi was awarded the Innovation and Technology Scholarship in 2023.
- And more...

GENERAL ENTRANCE REQUIREMENTS

JUPAS Applicants

Applicants must satisfy the University's General Entrance Requirements of 4 core and 2 elective subjects with:

- Level 3** In English Language and Chinese Language
- Level 2** in Mathematics
- Level 3** in two elective subjects (M1/M2 can be considered)

and Attained in Citizenship and Social Development

Other Qualifications:
Visit [Study@PolyU](#) for details



SCHOLARSHIP & EXCHANGE SPONSORSHIP

ISE ENTRY SCHOLARSHIPS FOR OUTSTANDING HKDSE STUDENTS

In addition to the University Academic Scholarships given to outstanding HKDSE students, ISE Entry Scholarships will be granted to eligible HKDSE students admitted to the Scheme.

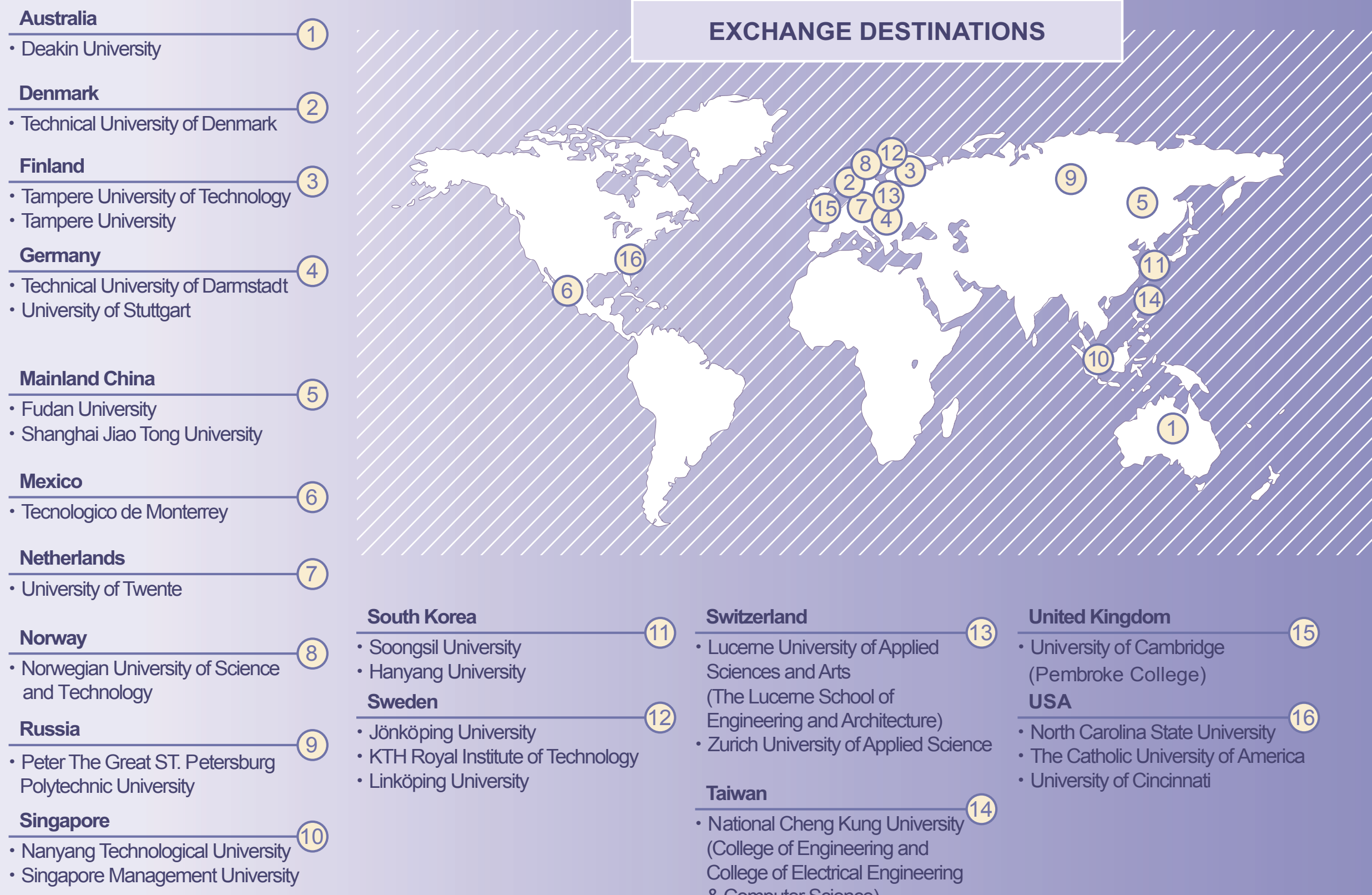
For more details, please visit [Study@PolyU](#)

STUDENT EXCHANGE SPONSORSHIP

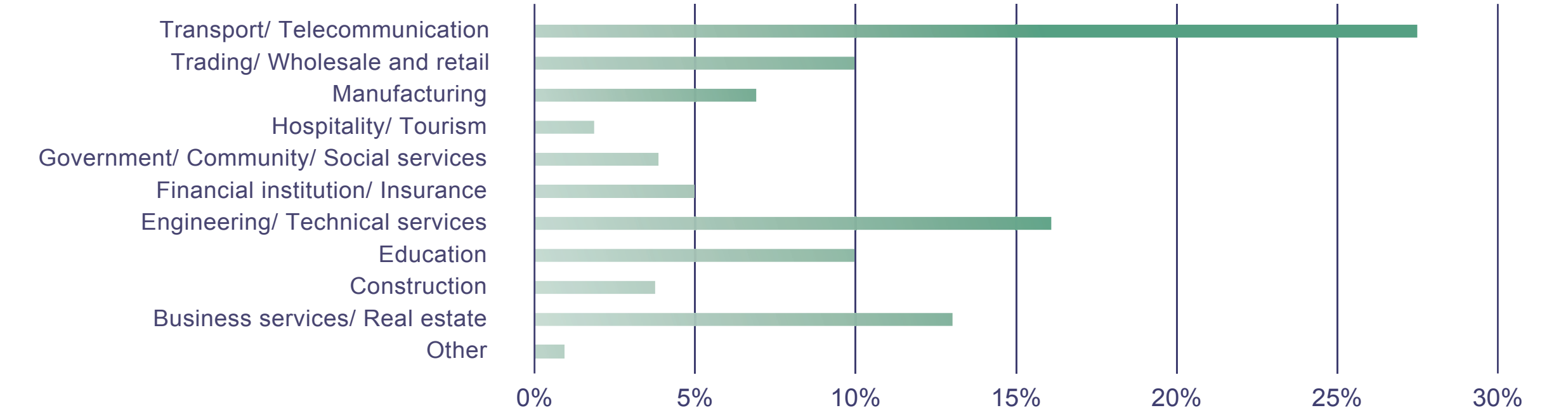
Eligible students who wish to experience different cultures and gain a global perspective will be sponsored to study abroad on an exchange programme for one semester.

AND MANY MORE...

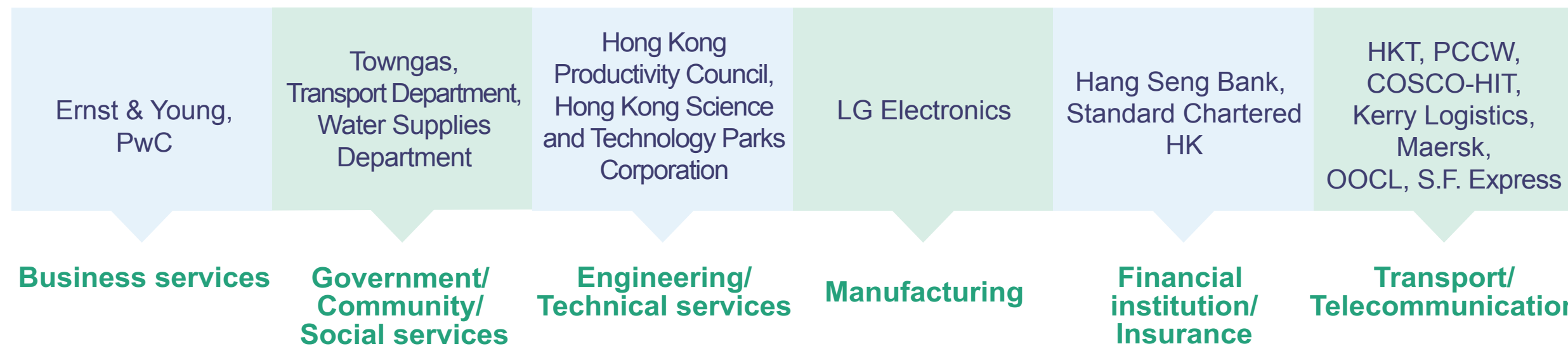
DIVERSE LEARNING EXPERIENCES



GRADUATE EMPLOYMENT

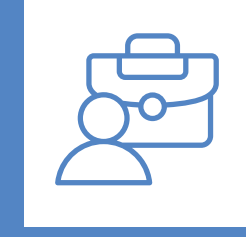


EMPLOYERS




Source: 2023 Graduate Employment Survey by the Careers and Placement Section of the Student Affairs Office

INDUSTRIAL EXPOSURE



INTERNSHIPS

We empower students with practical workplace applications through on-the-job work placements in Hong Kong, the Chinese mainland, or overseas. This provides opportunities for hands-on experience at leading organizations such as ASMT, BOCHK, Cathay Pacific, Ernst & Young, GP Batteries, HSB, HKT Ltd., Leo Paper Group, OOCL and PCCW Solutions.



FINAL YEAR PROJECTS


Culminating in Final Year Projects supervised by our experienced ISE faculty, our programmes offer students the chance to integrate their generic competencies and specialized expertise into industry-related projects, enabling them to gain valuable insights into contemporary markets and real-world problem-solving experiences.

GRADUATES' TESTIMONIAL




Mr LAM Ho Lok, Cola
Head of Operations, Hong Kong Industrial Artificial Intelligence and Robotics Centre, Founder, Green AI Technology Limited
BEng (Hons) in Product Engineering with Marketing, 2013
Former programme of BEng in PIM

As the Team Head of an InnHok R&D Centre and the Founder of a spin-off company, I focus on developing AI and robotics technology for the waste management industry. The undergraduate programme at ISE equipped me with comprehensive knowledge about product development and manufacturing technology. The most valuable aspects of my undergraduate studies were the practical experience I gained at the Industrial Center and the lessons on how to continuously learn. These experiences have helped me be well-prepared for my career development.



Ms CHAN Kwun Yu, Tiffany
Business Analyst, Orient Overseas Container Line Ltd. (OOCL)
BSc (Hons) in Logistics Engineering with Management, 2020
Former programme of BSc in ISC

My undergraduate study at PolyU provides a solid foundation in logistics operations and business processes, aiding in understanding the intricacies of the shipping industry. This background enhances my ability to analyze requirements, identify process improvements, and propose effective solutions. The Logistics and Engineering Management (LEM) programme equips me with analytical skills for interpreting data and translating business needs into IT requirements. Problem-solving abilities honed through complex logistics challenges enable me to design solutions and implement IT systems. Communication skills refined through stakeholder interactions are vital for articulating technical concepts. My understanding of business processes is key to optimizing efficiency and driving growth as a Business Analyst at workplace.




Ms Ru Weiming, Linda
Consultant, EY-Parthenon
MPhil in Industrial Systems, Manufacture, and Management, University of Cambridge, 2021
BSc (Hons) in Enterprise Engineering with Management, 2020
Former programme of BSc in EMDA

Enterprise Engineering with Management (EEM), retitled to Engineering Management with Data Analytics (EMDA), is designed to equip graduates with hard skills, personal development, and industrial experience. The programme will broaden your perspective through embedded internships, exchange programs, summer school opportunities and open the door to a wide range of careers including but not limited to consulting, finance, and management trainee in different sectors.

Bachelor of Engineering (Honours) Scheme in Product Innovation and Smart Manufacturing 產品創新及智能製造(榮譽)工學士組合課程

JS3236



Students admitted to the scheme follow the same curriculum for the first 1.5 years. They will be able to choose one of two honours degree options by the end of the first semester of their second year.

BEng (Hons) in Product Innovation with Marketing 產品創新兼市場學 (榮譽) 工學士 **BEng in PIM**

This programme provides integrated education and training for students on synergising product design, technology and business in new product development, and it aims to develop students' knowledge of business development, strategic product planning, product marketing and management and help them understand how to apply knowledge to the development of successful new products.

BEng (Hons) in Smart Manufacturing 智能製造(榮譽) 工學士 **BEng in SM**

Smart Manufacturing is a professional discipline that focuses on developing and implementing optimal solutions from a system-level perspective, with the objective of providing leadership in the design of integrated industrial and commercial systems for the advancement and well-being of the community.

Professional Recognition

The **BEng in PIM** and **BEng in SM** programmes have been granted full accreditation by the Hong Kong Institution of Engineers (HKIE). The programmes are also recognised by other Washington Accord signatories. The Washington Accord is an international agreement between bodies responsible for accrediting engineering degree programmes. Currently, it has 20 signatories, including the United States, the United Kingdom, Australia, Canada, Japan, Korea, Singapore, Malaysia and New Zealand.


Career Prospects



	PIM	SM
Control, Automation and Instrumentation		
Basic Artificial Intelligence and Data Analytics for Efficiency and Effectiveness in Daily Life	•	•
Industrial Control Systems and Their Applications	•	•
Instrumentation and Automation Systems	•	•
Robotics and Automation Systems	•	•
Engineering Foundation		
Applied Engineering Fundamentals	•	•
Basic Mathematics I – Calculus and Probability and Statistics	•	•
Basic Mathematics II – Calculus and Linear Algebra	•	•
Computer Programming	•	•
Electricity and Electronics	•	•
Engineering Professionals in Society I	•	•
Engineering Professionals in Society II	•	•
Mathematics I	•	•
Physics I	•	•
Physics II	•	•
Engineering Management		
Business Process Management and Innovation I	•	•
Business Process Management and Innovation II	•	•
Business-to-Business Marketing	•	•
Design in Business for Engineering	•	•
Engineering Management	•	•
Enterprise Resources Planning	•	•
Total Quality Management	•	•
Industrial and Systems Engineering		
Industrial Engineering Techniques and Methods		•
Introduction to Industrial Design	•	•
Introduction to Innovation and Entrepreneurship	•	•
Product Safety and Reliability	•	•
Quality Engineering for Product Improvement	•	•
Process and System Design		
Advanced Manufacturing Technology		•
Computer-Aided Product Design	•	•
Eco-design and Sustainable Manufacture	•	•
Fundamentals of Materials Science and Engineering	•	•
Integrated Design for Manufacture	•	•
Materials and Processes Selection	•	•
New Product Planning and Development	•	•
Planning of Manufacturing Systems	•	•
Product Development with Manufacturing Processes	•	•
Quantitative Method		
Engineering Costing and Evaluation		•
Applied AIDA in Operations Research and Management		•
Marketing Research	•	

Bachelor of Science (Honours) Scheme in Intelligent Supply Chain and Engineering Management 智能供應鏈及工程管理(榮譽)理學士組合課程

JS3237



Students admitted to the scheme follow the same curriculum for the first 2 years. They will be able to choose one of three honours degree options by the end of the second semester of their second year.

BSc (Hons) in Intelligent Supply Chain 智能供應鏈(榮譽)理學士 **BSc in ISC**

This programme aims to nurture supply chain and logistics engineers and professionals who are competent in the design, implementation, control, and execution of supply chain and logistics systems and related technologies and capable of managing complex supply chain and logistics technology systems for increasingly technology-enabled logistics enterprises.

Professional Recognition: Graduates are granted full exemption (Logistics Stream) from the Professional Qualifying Examination (PQE) leading to Chartered Membership of the Chartered Institute of Logistics and Transport in Hong Kong (CILTHK).

BSc (Hons) in Engineering Management with Data Analytics 工程管理兼數據分析(榮譽)理學士 **BSc in EMDA**

This programme aims to generate a new tranche of professionals with the entrepreneurship skills and ability to integrate and apply engineering, business management, and information technology expertise to optimise the operations of modern information-based enterprises and workflows along the business value chains in which they operate.

Professional Recognition: Accreditation has been sought from the Chartered Management Institute for the dual accreditation. Students will automatically receive a second professional qualification upon successful completion of the programme.

BSc (Hons) in Aviation Operations and Systems 航空營運及系統學(榮譽)理學士 BSc in AOS

This programme focuses on the design, development, planning, scheduling, implementation, and control of processes and systems in aviation and related industries. It emphasizes creating new and reengineering existing processes and operations to better understand complex aviation issues. The programme leverages knowledge from engineering, management, and social sciences to specify, optimize, predict, and evaluate outcomes.

Professional Recognition: The programme has been granted provisional accreditation by the Chartered Institute of Logistics and Transport in Hong Kong (CILTHK).

Career Prospects



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

UNDERGRADUATE PROGRAMME ADMISSIONS

BEng (Hons) Scheme in Product Innovation and Smart Manufacturing JS3236

- Product Innovation with Marketing
- Smart Manufacturing

BSc (Hons) Scheme in Intelligent Supply Chain and Engineering Management JS3237

- Intelligent Supply Chain
- Engineering Management with Data Analytics
- Aviation Operations and Systems

Enquiries
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