

Master of Philosophy (MPhil) Program in Industrial Engineering and Logistics Management

The MPhil program focuses on strengthening the students' background in their chosen areas of concentration, and training them for engineering research and development. The MPhil degree program is highly suitable for individuals with aspirations to take leading technical roles in Hong Kong's high value-added business organizations.

In the MPhil program, a student is required to take a minimum of 15 credits of approved postgraduate coursework, with at least three courses (9 credits) from the following five course groups:

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|----|---------|-----|--|-----------|
| 1. | IELM | 511 | Information System Design | [2-0-3:3] |
| 2. | IELM | 517 | Advanced Production Planning and Control | [3-0-1:3] |
| 3. | IELM | 523 | Deterministic Models in Operations Research | [3-0-0:3] |
| | or IELM | 525 | Stochastic Models in Operations Research | [3-0-0:3] |
| 4. | IELM | 526 | Design and Analysis of Engineering Experiments | [3-0-0:3] |
| 5. | IELM | 532 | Design for People | [3-0-0:3] |
| | or IELM | 552 | Human-Computer Systems | [3-0-0:3] |

Students are also required to participate in the departmental seminar series (IELM 680) for at least two semesters.

Students must pass LANG 501 Postgraduate English for Academic Purposes [0-3-0:1], the one credit earned from which cannot be counted toward the degree requirements. Students can be exempted from taking LANG 501 by the Department Head or the PG Coordinator, based on the students' background and/or the English proficiency assessment of the Language Center.

To complete the degree program, a student must satisfactorily complete a thesis to demonstrate competency in engineering research.

Doctor of Philosophy (PhD) Program in Industrial Engineering and Logistics Management

The PhD degree is the highest degree offered by the Department. It caters for students who wish to pursue a career in advanced industrial research and development, or university research and teaching.

The PhD program emphasizes training in original thinking and independent research. Students are free to design the program of study most suitable to their interests and needs. The program of study should cover a specialized area in industrial engineering.

The PhD program aims at developing a student's skills in identifying issues related to a theoretical problem or a practical application, formulating an original research project that addresses some of the significant issues, and independently creating an effective solution to the problem.

Students who have a bachelor's degree are required to take a minimum of 36 credits of approved coursework. Students who have a relevant MSc or MPhil degree may be granted credit transfer of 12 credits. Subject to the approval of the student's thesis supervisor and the PG Committee, a maximum of 6 credits of undergraduate 300-level coursework may be counted toward the degree requirement.

Students are required to take:

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|----|---------|-----|--|-----------|
| 1. | IELM | 511 | Information System Design | [2-0-3:3] |
| 2. | IELM | 517 | Advanced Production Planning and Control | [3-0-1:3] |
| 3. | IELM | 523 | Deterministic Models in Operations Research | [3-0-0:3] |
| | or IELM | 525 | Stochastic Models in Operations Research | [3-0-0:3] |
| 4. | IELM | 526 | Design and Analysis of Engineering Experiments | [3-0-0:3] |
| 5. | IELM | 532 | Design for People | [3-0-0:3] |
| | or IELM | 552 | Human-Computer Systems | [3-0-0:3] |
- At least one 3-credit IELM Special Topics or 600-level course.
- Students must pass LANG 501 Postgraduate English for Academic Purposes [0-3-0:1], the one credit earned from which cannot be counted toward the degree requirements. Students can be exempted from taking LANG 501 by the Department Head or the PG Coordinator, based on the students' background and/or the English proficiency assessment of the Language Center
- Take and pass IELM 680 for at least 6 semesters during their residency. Part-time students may be exempted from this requirement.
- Pass the qualifying examination and the preliminary oral examination to review and approve the student's written thesis research proposal, write a thesis and pass a final thesis examination.

A faculty member of the Department should serve as the supervisor of a PhD student. Subject to the approval by the Head of the Department, a thesis advisory committee which consists of a minimum of three faculty members (including the supervisor) should be set up at least six weeks before the date of the thesis proposal presentation. At least two members of this committee must be from the Department of Industrial Engineering and Logistics Management.