

THE UNIVERSITY OF HONG KONG
FACULTY OF ENGINEERING
Master of Science in Engineering

1. Applications are invited for admissions in **September 2024** to curricula leading to the degree of Master of Science in Engineering in the fields of

- Civil Engineering
- Building Services Engineering
- Electrical and Electronic Engineering
- Energy Engineering
- Industrial Engineering and Logistics Management
- Innovative Design and Technology
- Mechanical Engineering
- Microelectronics Science and Technology

Applications should be submitted via the online application system at <https://hku.hk/tpg/>. When filling in the online application form, please provide valid mailing address and email address to ensure successful and confidential delivery of materials.

Mode and Period of Study

2. The curriculum shall normally extend over one academic year of full-time study or two academic years of part-time study. Candidates shall not be permitted to extend their studies beyond the maximum period of registration of two academic years of full-time study or three academic years of part-time study, unless otherwise permitted or required by the Board of Faculty. For both full-time and part-time modes, the period of study shall include any assessment to be held during and/or at the end of each semester.

Pattern of Study

3. Candidates of MSc(Eng)(CivE), MSc(Eng)(BSE), MSc(Eng)(EEE), MSc(Eng)(EnergyE), MSc(Eng)(IELM) and MSc(Eng)(ME) should complete 72 credits of courses selected from the syllabus of the candidate's approved field of study which must include a capstone experience in the form of dissertation or project[#].

[#] For MSc(Eng)(EEE), MSc(Eng)(EnergyE), MSc(Eng)(IDT) and MSc(Eng)(IELM) curricula only.

4. For MSc(Eng)(IDT), students must complete not fewer than 72 credits nor more than 84 credits of courses selected from the syllabus which must include capstone experience.

Entry Qualifications

5. To be eligible for admission to the programmes, a candidate shall satisfy both the University Entrance Requirements and the Programme Entrance Requirements including but not limited to:

- (a) shall comply with the General Regulations;
- (b) shall hold a Bachelor's degree of this University or a qualification of equivalent standard from this University or another comparable institution accepted for this purpose;
- (c) for a candidate who is seeking admission on the basis of a qualification from a university or comparable institution outside Hong Kong of which the language of teaching and/or examination is not English, shall satisfy the University English language requirement applicable to high degrees as prescribed under General Regulation G2(b); and
- (d) satisfy the examiners in a qualifying examination if required.

An application for exemption from the above requirements shall be considered on a case by case basis.

Description of Curriculum

Civil Engineering

6. The Master of Science in Engineering (Civil Engineering) Programme is a part-time / full-time postgraduate programme providing advanced education in the field of civil engineering. The programme aims at providing in-depth theoretical and practical education for graduates aspiring to pursue professional careers in civil engineering and for practising civil engineers to advance and update their knowledge.

The General Stream provides students with a platform to acquire multi-disciplinary knowledge in Environmental Engineering, Geotechnical Engineering, Infrastructure Project Management, Structural engineering and Transportation Engineering. Students are required to complete 6 discipline courses (36 credits); 2 elective courses (12 credits) and a dissertation (24 credits).

Three specialised streams of studies are also offered in Environmental Engineering, Geotechnical Engineering and Structural Engineering. Students are required to complete 6 discipline courses (36 credits), including 4 in their respective specialised stream of studies; 2 elective courses (12 credits) and a dissertation (24 credits).

Some courses in this curriculum are approved for reimbursement from the Continuing Education fund (CEF).

Building Services Engineering

7. The curriculum provides advanced education and training in the theory and practice of building services engineering. It covers the core areas of utility services, electrical services, air conditioning and refrigeration, fire safety, lighting and project management. Further training on more advanced areas in building services is also provided.

Electrical and Electronic Engineering

8. The curriculum provides advanced education and training in the theory, methods and techniques in electronics and computer engineering. It covers topics such as data communication, application of microprocessors, industrial digital control, advanced digital signal processing, software engineering and other advanced topics. Some courses in this curriculum are approved for reimbursement from the Continuing Education Fund (CEF).

Energy Engineering

9. The curriculum provides advanced education and training in the field of Energy Engineering. It covers renewable energy technology, smart grids, electric vehicles, power systems, energy management, carbon audit and other energy-related advanced topics. Some courses in this curriculum are approved for reimbursement from the Continuing Education fund (CEF).

Industrial Engineering and Logistics Management

10. The curriculum provides advanced education and training in the philosophy, methods and techniques of industrial and logistics management that are appropriate to the manufacturing, logistics and service industries. It covers industrial project management, organization theory, ergonomics, operational research, enterprise logistics, supply management, global logistics, supply chain management, terminal and warehousing, costing and finance, quality management, information technology management, and RFID technologies. Some courses in this curriculum are approved for reimbursement from the Continuing Education Fund (CEF).

Innovative Design and Technology

11. The aim of the MSc(Eng)(IDT) programme is to prepare students for the fast-changing world in which innovative design and technology are the driving force of the future. Through this programme, students will acquire essential knowledge and practical skills for developing novel solutions, services or products to help further promote Hong Kong's development in innovation and technology. The IDT programme provides a comprehensive range of interdisciplinary elective courses which are offered by different departments of the Faculty of Engineering, Faculty of Education and Faculty of Architecture.

Mechanical Engineering

12. The curriculum provides advanced education in the fields of energy and power; materials technology; theoretical mechanics; environmental engineering; medical engineering; control and robotics; engineering management; and computer aided design and manufacturing. Some courses in this curriculum are approved for reimbursement from the Continuing Education Fund (CEF).

Microelectronics Science and Technology

13. The aim of the MSc(Eng)(MEST) is to prepare students for the fast-growing microelectronics and semiconductor industry that serves the foundation of modern society. Microelectronics and semiconductor industry are highly specialized with cutting-edge materials, processes, and sciences heavily involved. Our programme is to provide comprehensive knowledge and hands-on training to educate future microelectronics talents for the strong demand from the industrial sectors in this area. An in-depth, well-balanced, and multidisciplinary knowledge across various aspects of the whole value chain will greatly enhance students' capability of grasping future business opportunities as engineers, managers, and entrepreneurs.

Regulations and Syllabuses

14. Regulations and Syllabuses of the MSc(Eng) curricula are available at <https://hku.hk/tpg>.

English Language Requirement

15. Applicants who wish to be admitted on the basis of a qualification from a university or comparable institution outside Hong Kong of which the language of teaching and/or examination is not English shall satisfy the [University English language requirement](#) unless in exceptional circumstances they are exempted from this requirement.

Transcripts

16. When providing official graduate transcript (or interim transcript if the graduate transcript is not available yet) from every college or university you have attended as supporting document, please do not omit the back side of the transcript if it contains information on the grading system.

Please note that you are not required to submit original/certified true copy of your documents to the University during the application stage. Should you be given an admission offer by the University, you will be required to submit original/certified true copy of corresponding documents. Please note that the University will only ACCEPT originals or copies of the documents that have been duly declared as true copies before a notary public (e.g. a Commissioner for Oaths at a District Office in Hong Kong). Copies of documents may be certified by the appropriate officials of your home institute if you are an overseas applicant.

Documents once submitted will not be returned, and will be destroyed if the application is unsuccessful.

Application Fee

17. The application fee is HK\$300 per application (non-refundable), and payment should be made online.

Composition Fee

18. The proposed composition fee for 2024/25 intake is HK\$210,800 (local) and HK\$281,000 (non-local), subject to the University's approval.

The composition fee is payable on an annual basis, payment shall be by two identical instalments for full-time study within the normative period of study (one year) and four identical instalments for part-time study within the normative period of study (two years). The composition fee will continue to be charged on semester / yearly basis beyond the normative period of study.

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The first instalment of composition fees is payable at the time of acceptance of an offer of admissions.

The caution money is HK\$350. It is payable at the time of acceptance of an offer of admission.

Announcement of Results

19. Applicants who do not hear from the Faculty of Engineering by July 31, 2024 may assume their applications unsuccessful.

Enquiries

<u>Curriculum</u>	<u>Tel. No.</u>	<u>Fax No.</u>	<u>E-mail</u>
MSc(Eng) in Civil Engineering	(852) 3917-5532	(852) 2559-5337	ymwonga@hku.hk
MSc(Eng) in Building Services Engineering	(852) 3910-2658	(852) 2858-5415	mech@hku.hk
MSc(Eng) in Electrical and Electronic Engineering	(852) 3917-2708	(852) 2559-8738	tpg-admission@eee.hku.hk

MSc(Eng) in Energy Engineering	(852) 3917-2708	(852) 2559-8738	tpg-admission@eee.hku.hk
MSc(Eng) in Industrial Engineering and Logistics Management	(852) 3917-2551	(852) 2858-6535	mscielm@hku.hk
MSc(Eng) in Innovative Design and Technology	(852) 3910-2658	(852) 2858-5415	mech@hku.hk
MSc(Eng) in Mechanical Engineering	(852) 3910-2658	(852) 2858-5415	mech@hku.hk
MSc(Eng) in Microelectronics Science and Technology	(852) 3910-2658	(852) 2858-5415	mech@hku.hk

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