

**THE UNIVERSITY OF HONG KONG
FACULTY OF ENGINEERING**

Master of Science in Engineering

1. Applications are invited for admissions in **September 2019** to curricula leading to the degree of Master of Science in Engineering in the fields of

- Building Services Engineering
- Electrical and Electronic Engineering
- Energy Engineering
- Environmental Engineering
- Geotechnical Engineering
- Industrial Engineering and Logistics Management
- Infrastructure Project Management
- Mechanical Engineering
- Structural Engineering
- Transportation Engineering

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 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 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.

Entry Qualifications

4. 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

Building Services Engineering

5. 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. The curriculum offers part-time mode of study only for 2019-20 intake.

Electrical and Electronic Engineering

6. 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

7. 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).

Environmental Engineering

8. The curriculum provides advanced education in the field of Water and Environmental Engineering. Candidates must complete 8 courses (6 credits each) and a dissertation (24 credits). He/She can select no more than three Taught Postgraduate level courses offered by other curricula in the Faculty of Engineering as electives. Some courses in this curriculum are approved for reimbursement from the Continuing Education Fund (CEF).

Geotechnical Engineering

9. The curriculum provides advanced education in the field of Geotechnical Engineering. Candidates must complete 8 courses (6 credits each) and a dissertation (24 credits). He/She can select no more than three Taught Postgraduate level courses offered by other curricula in the Faculty of Engineering as electives. 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).

Infrastructure Project Management

11. The curriculum provides advanced education in the Management of Infrastructure Projects over their entire life cycle. Candidates must complete 8 courses (6 credits each) and a dissertation (24 credits). He/She can select no more than three Taught Postgraduate level courses offered by other curricula in the Faculty of Engineering as electives. Some courses in this curriculum are approved for reimbursement from the Continuing Education Fund (CEF).

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).

Structural Engineering

13. The curriculum provides advanced education in the field of Structural Engineering. Candidates must complete 8 courses (6 credits each) and a dissertation (24 credits). He/She can select no more than three Taught Postgraduate level courses offered by other curricula in the Faculty of Engineering as electives. Some courses in this curriculum are approved for reimbursement from the Continuing Education Fund (CEF).

Transportation Engineering

14. The curriculum provides advanced education in the field of Transportation Engineering. Candidates must complete 8 courses (6 credits each) and a dissertation (24 credits). He/She can select no more than three Taught Postgraduate level courses offered by other curricula in the Faculty of Engineering as electives. Some courses in this curriculum are approved for reimbursement from the Continuing Education Fund (CEF).

Regulations and Syllabuses

15. Regulations and Syllabuses of the MSc(Eng) curricula can be downloaded from our website at <https://hku.hk/tpg/>.

English Language Requirement

16. Applicants who wish to be admitted on the basis of a qualification from a university or comparable institution outside Hong Kong where the language of teaching and/or examination is not English are required to obtain:

- i. a score of 550 or above (paper-based test) or 80 or above (internet-based test) in the Test of English as a Foreign Language (TOEFL). An applicant who took the TOEFL should request the Educational Testing Service (ETS) to

send an official score report to the University directly. For this purpose, the HKU TOEFL code number is 9671. Test scores more than two years old will not be accepted; or

- ii. A minimum overall band of 6 with no subtest lower than 5.5 in the International English Language Testing System (IELTS); or
 - iii. Grade C or above in the Overseas General Certificate of Education (GCE); or
 - iv. Grade C or above in the International General Certificate of Secondary Education (IGCSE); or
 - v. Grade C or above in the Cambridge Test of Proficiency in English Language;
- unless in exceptional circumstances they are exempted from this requirement.

Transcripts

17. An official transcript should be requested from every college or university you have attended. Please do not omit the back side of the transcript if it contains information on the grading system. Photocopies of the transcript request form may be used to request transcripts from additional institutions. The official transcript with the transcript request form should be sent directly by the registrar of the institutions to the Faculty of Engineering Office. Please note that the University will only ACCEPT originals and copies of the documents that have been duly declared as true copies before a notary public.

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

Application Fee

18. The application fee is HK\$300 (non-refundable), paid by credit card online.

Closing Dates

19. The closing dates for application for admissions to our MSc(Eng) curricula are:

Round 1 (Main): December 31, 2018

Round 2 (Clearing): 12:00nn (HKT), April 15, 2019

Composition Fee

20. The composition fee for each 6 credit-units for the following MSc(Eng) curricula is HK\$12,000 for the intake in the academic year 2019-2020, subject to the University's approval:

- Building Services Engineering
- Electrical and Electronic Engineering
- Energy Engineering
- Environmental Engineering
- Geotechnical Engineering
- Industrial Engineering and Logistics Management
- Infrastructure Project Management
- Mechanical Engineering
- Structural Engineering
- Transportation Engineering

The composition fee of 12 credit-units is payable at the time of acceptance of an offer of admissions.

The composition fee for the 24 credit-units dissertation, shall be payable in two instalments upon enrolment, unless otherwise stated, with each instalment paid in each semester. Students are required to pay the composition fee for courses they enrol by semester.

The dissertation is compulsory for students in the MSc(Eng) curricula. Students are required to enrol in the dissertation immediately upon admissions.*

* Not applicable to MSc(Eng) in Building Services Engineering and MSc(Eng) in Mechanical Engineering curricula.

Announcement of Results

21. Applicants who do not hear from the Faculty of Engineering by July 31, 2019 may assume their applications unsuccessful.

Enquiries

| <u>Curriculum</u> | <u>Tel. No.</u> | <u>Fax No.</u> | <u>E-mail</u> |
|---|-----------------|-----------------|--|
| MSc(Eng) in Building Services Engineering | (852) 3917-2630 | (852) 2858-5415 | kkilo@hku.hk |
| MSc(Eng) in Electrical and Electronic Engineering | (852) 2859-7093 | (852) 2559-8738 | mesceng@eee.hku.hk |
| MSc(Eng) in Energy Engineering | (852) 2859-7093 | (852) 2559-8738 | mesceng@eee.hku.hk |
| MSc(Eng) in Environmental Engineering | (852) 3917-5156 | (852) 2559-5337 | cpwryan@hku.hk |

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|---|-----------------|-----------------|--|
| MSc(Eng) in Geotechnical Engineering | (852) 3917-5156 | (852) 2559-5337 | cpwryan@hku.hk |
| MSc(Eng) in Industrial Engineering and Logistics Management | (852) 2859-2551 | (852) 2858-6535 | brendale@hku.hk |
| MSc(Eng) in Infrastructure Project Management | (852) 3917-5156 | (852) 2559-5337 | cpwryan@hku.hk |
| MSc(Eng) in Mechanical Engineering | (852) 3917-2630 | (852) 2858-5415 | kkilo@hku.hk |
| MSc(Eng) in Structural Engineering | (852) 3917-5156 | (852) 2559-5337 | cpwryan@hku.hk |
| MSc(Eng) in Transportation Engineering | (852) 3917-5156 | (852) 2559-5337 | cpwryan@hku.hk |

September 2018

Amended October 26, 2018

Amended November 9, 2018