

Division of Mechanical and Automation Engineering

The Division of Mechanical and Automation Engineering specializes on the impact of modern automation technologies to the current and future development of mechanical engineering.

MPhil-PhD in Mechanical and Automation Engineering

Admission Code: MAE

Programme

MPhil Stream

Students are required to complete at least 4 graduate courses with a total of 12 units as approved by the Division and register for the relevant thesis research course every term throughout their studies. In addition, a research project is required for which a thesis is to be submitted with pass an oral defence for graduation.

PhD Stream*

All students in the PhD stream will be admitted initially in the "pre-candidacy" status. Upon satisfying the Division's candidacy requirements, the student will be allowed to progress to the "post-candidacy" status. As a requirement for graduation, students must carry out a substantial amount of research which will lead to original results worthy of publication in scholarly journals.

Pre-candidacy:

Students are required to complete

1. at least 4 graduate courses with a total of 12 units as approved by the Division;
2. register for the relevant thesis research course every term throughout his/her studies;
3. pass the candidacy examination, submit a thesis proposal and pass an oral examination of the thesis proposal.

Post-candidacy:

Students are required to complete

1. at least 1 graduate course with a total of 3 units as approved by the Division;
2. register for the relevant thesis research course every term throughout his/her studies;
3. submit a thesis and pass an oral defence of the thesis for graduation.

Please visit the Division's homepage for more information.

Fields of Specialization

- Biomaterials & Tissue Engineering, Biomechanics

* Subject to the final approval of the Faculty Board, students in the PhD Stream will be required to complete at least 7 courses (21 units) as the minimum graduation requirement starting 2017-18 entry.

- Design and Advanced Manufacturing
- Combustion and Propulsion
- Computational Intelligence and Intelligent Systems
- Electrochemical Energy Conversion and Storage
- Micro /Nanoscale Heat Transfer and Fluid Mechanics
- Ultrafast Laser Applications & Biomedical Optics
- Quantum Computing and Quantum Information
- Precision Engineering and Instrumentation
- Robotics
- Smart Materials and Structures
- Sustainable Fuel Production
- Systems and Control

Admission Requirements

Applicants must meet the general qualifications required for admission to Graduate School¹ and they should have majored in discipline that is related to their intended field of MPhil or PhD studies. All applicants are required to submit a list of research publications, if any.

Additional Application Information

The Division will consider admission of part-time PhD students with Master's degree and strong academic records. Part-time students will be required to take regular graduate courses offered in the day time.

Application Deadline

1 December 2016

For applicants who apply for PhD programme through the Hong Kong PhD Fellowship Scheme (HKPFS)²

31 January 2017

For applicants who apply for MPhil programme directly with CUHK

Throughout the year

For applicants who apply for PhD programme directly with CUHK (i.e. non-HKPFS applicants)

CONTACT METHODS

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¹ For the general qualifications required for admission to the Graduate School, please refer to pages 16-17.

² For information on HKPFS, please refer to page 17.