

Department of Construction Management and Intelligence (CMI) MSc in Intelligent Construction

Programme Overview

This MSc in Intelligent Construction programme is a mixed-mode taught postgraduate programme designed to address the “Construction 2.0 - Time to Change”, an initiative developed and promoted by the Hong Kong SAR Government, and the global demand in digitalisation in the construction industry. The programme will focus on equipping students with state-of-the-art Intelligent Construction Technologies (ICT) along with capabilities of executing construction engineering managerial skills through pioneering ICT approaches in both theoretical and applied aspects.

Programme Structure and Subjects

Dissertation path

**21 Credits (7 Compulsory Subjects)
+ 9 credits (Dissertation)**

Non-dissertation path

**27 Credits (9 Compulsory Subjects)
+ 3 Credits (1 Elective Subject)**

Available based on students' preferences.

Compulsory subjects for both dissertation and non-dissertation paths:

- ◆ Machine Learning and Data Mining for Construction*
- ◆ Automation and Robotics in Construction*
- ◆ Advanced Visualisation and Interactive Technologies for Construction*
- ◆ 3D Printing in Construction: Principles and Applications*
- ◆ Information Management for Construction and Real Estate*
- ◆ Construction Information Technology[#]
- ◆ Research Methods for Construction and Real Estate^{#^}
(This subject must be taken in advance of or in parallel with Dissertation when dissertation path is chosen. And it must be taken in advance of the subject Integrated Project in Intelligent Construction when non-dissertation path is chosen.)

Students are also required to fulfil the following compulsory University's requirements:

- ◆ Academic Integrity and Ethics (a 1-credit bearing but non-credit fee charging subject)
- ◆ National Education (a self-learning on-line module)

Compulsory subjects for non-dissertation path only:

- ◆ Integrated Project in Intelligent Construction*
- ◆ Strategic Management^{#^}

Recommended elective subject for non-dissertation path only:

- ◆ Principles of Project Management[#]

* One 3-hour weekday evening class per week over a 13-week semester.

3 to 4 full-day workshops during weekend (Saturdays and/or Sundays).

^ Daytime classes held during weekdays are available for full-time students.

(Delivery mode may be subject to review and change.)

Duration

1 year (Full-time) | 2 years (Part-time)

Enquiries

General Information

Ms Sally CHAN

☎ (852) 2766 5807

✉ sally.sm.chan@polyu.edu.hk

Academic Related Matters

Prof. Johnny H.H. WEI

☎ (852) 3400 8194

✉ hsi-hsien.wei@polyu.edu.hk

Programme Details and Entrance Requirements



<https://polyu.hk/kyyex>