The course IIMP6050 in 2022-2023 will require the students to finish three modules in 13 weeks.

Module 1: 4 weeks

Module 2: 4 weeks

Module 3: 4 weeks

Reflection and course conclusion: 1 week

The modules will concentrate on specific real-world challenges in construction automation which will frame the conversation. These modules will involve contents across multiple disciplines, including robotics, IOT and tech innovations etc.

Each module will be divided into two phases.

Phase I: 3 weeks

At the beginning of each module, the students will receive an introduction to the challenge, with basic requirements to the solution described. Embedded contents and tools will be introduced to the students in this phase. At the end of the 3rd week, the students will be given a task to complete with their new-found understanding on knowledges centred around the task requirements.

Phase II: 1 week

At the beginning of the 4th week, the students will submit a short proposal for an advanced design that is beyond the basic solution requirements, and work on a practical prototype of their design. At the end of the 4th week, the students will give a presentation of their final design with demonstration.