

CPM6003 Building Information Modelling (BIM) and Construction Documentation

Unit Description

The Building Information Modelling (BIM) and Construction Documentation unit develops the students' ability to implement and manage BIM in construction projects. Key unit topics include BIM roles, governance, ISO 19650 standards, and the development of Employer's Information Requirements (EIR) and BIM Execution Plans (BEP). This unit places further emphasis on Common Data Environment (CDE) setup, configuration, and secure information workflows.

Practical application forms the core of the unit's delivery, covering advanced tools such as Navisworks and Trimble enable model coordination, clash detection, and conflict resolution. Field issue management through structured workflows will prepare students for real-world project scenarios. Upon completion, students will have the knowledge and skills to be able to lead BIM implementation, ensure compliance with information standards, and coordinate seamless collaboration across disciplines.

Credit Points	8 credit points
Duration	12 weeks (10 teaching weeks and 2 revision and assessment weeks)

Unit Learning Outcomes

On successful completion of this unit, students will be able to:

1. Identify roles and responsibilities involved in BIM implementation and governance on construction projects.
2. Produce essential BIM documentation in accordance with ISO 19650 standards.
3. Demonstrate the setup and management of information workflows using a Common Data Environment.
4. Utilise collaborative BIM tools for model coordination and field issue resolution.