

BPM107 Construction IT & Building Information Modeling

Level: 1

Credit Units: 5 Credit Units

Language: ENGLISH

Presentation Pattern: EVERY JAN

Synopsis:

BPM107 Construction IT & Building Information Modeling will give students an insight of construction IT and BIM used in construction project management. The course sets to equip students with essential knowledge in construction IT, ability to read and navigate in BIM software, knowledge of best modeling practice, and be able to apply modeling techniques. The buildingSMART Singapore DDM Accreditation Scheme offers Tier 4 Provisional accreditation for the BPM107 course. Graduates of the course are eligible for exemption from assessment at the Tier 4 level after gaining 1 year experience.

Topics:

- Construction IT
- Electronic Documentation Management system (EDMS)
- Project Management Software
- Supply chain Radio-Frequency Identification (RFID)
- Enterprise Resource Planning
- Building Information Modeling and its benefits
- Basics in BIM using Autodesk Revit/Bentley Microstation/GaphisoftArchiCAD
- BIM applications
- Integration and 4D BIM – Autodesk Naviswork / Bentley Navigator, etc.
- Regulatory Submission Procedures
- Best Practices
- The Future of BIM

Learning Outcome:

- Discuss the usages and value of IT in construction
- Discuss the usages and value of BIM
- Demonstrate ability to read the BIM software
- Demonstrate competency in construction IT and to navigate in the BIM software
- Apply construction IT and BIM techniques to project management
- Improve construction practices using IT and BIM

Assessment Strategies - Regular Semester (Evening Class):

Components	Description	Weightage Allocation (%)
Overall Continuous Assessment	PRE-CLASS QUIZ 1	2
	PRE-CLASS QUIZ 2	2

Overall Continuous Assessment	PRE-CLASS QUIZ 3	2
	LAB REPORT 1	10
	TUTOR-MARKED ASSIGNMENT 1	14
Overall Examinable Components	Written Exam	70
Total		100

*The information listed is subject to review and change.