

## 20.213 Building Information Modelling

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### Instructor

Aloysius Lian

### Course Description

### Teaching Assistants

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Denise Lee

Building Information Modeling (BIM) provides rich, machine-readable representations of proposed building designs. With BIM, it becomes practical to embed into computational tools the accumulated knowledge regarding good design and construction practices. This subject is designed to provide students with fundamental knowledge and basic practical skills of the planning and execution of Building Information Models.

It is also aimed to offer opportunities for students to establish a basic understanding of those elements that impact the generation of a Building Information Model, including methods of communication, data creation, social, and economic factors between trades. Building models will be challenged with analysis software to test for various performance criteria. Learning occurs through design cases of building over 4 stories and wide span structures as a way to learn behaviors of all building systems. Students will also use visual programming skills to design parametric schematics.

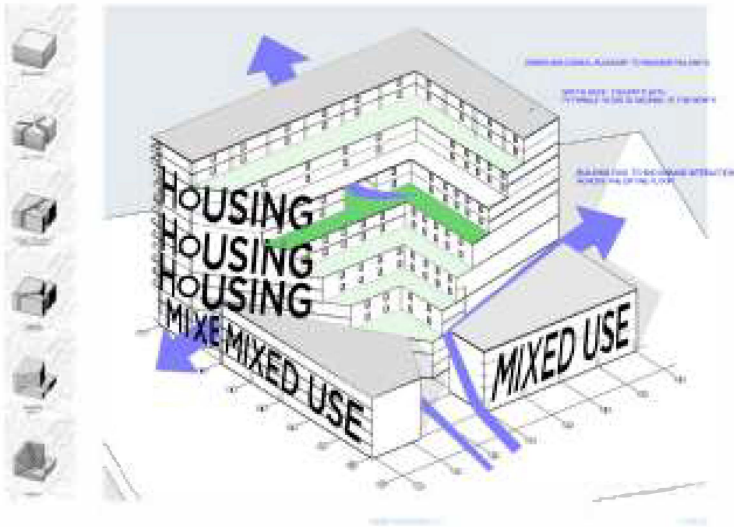


Figure 01: Schematic Diagram  
Project by  
Song Ting Xuan, Naomi  
Bachtiar, Nurul Nabilah Izzati,  
Paris Lau, Wang Meng Cheng



Figure 02: Axonometric  
Project by  
Song Ting Xuan, Naomi  
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