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Diploma in Construction Information Technology (DCIT)

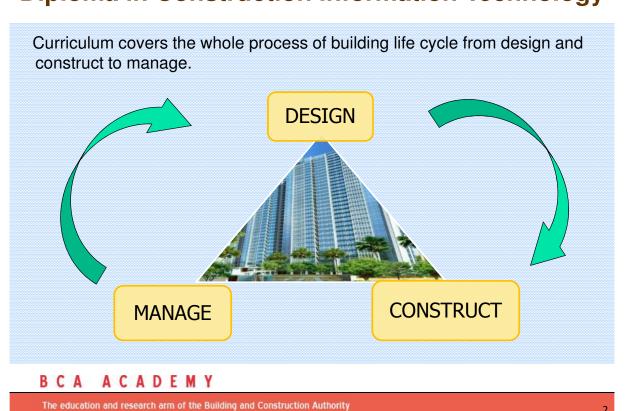
Presented by: Andell Matthew Tan Senior Lecturer School of Building & Development

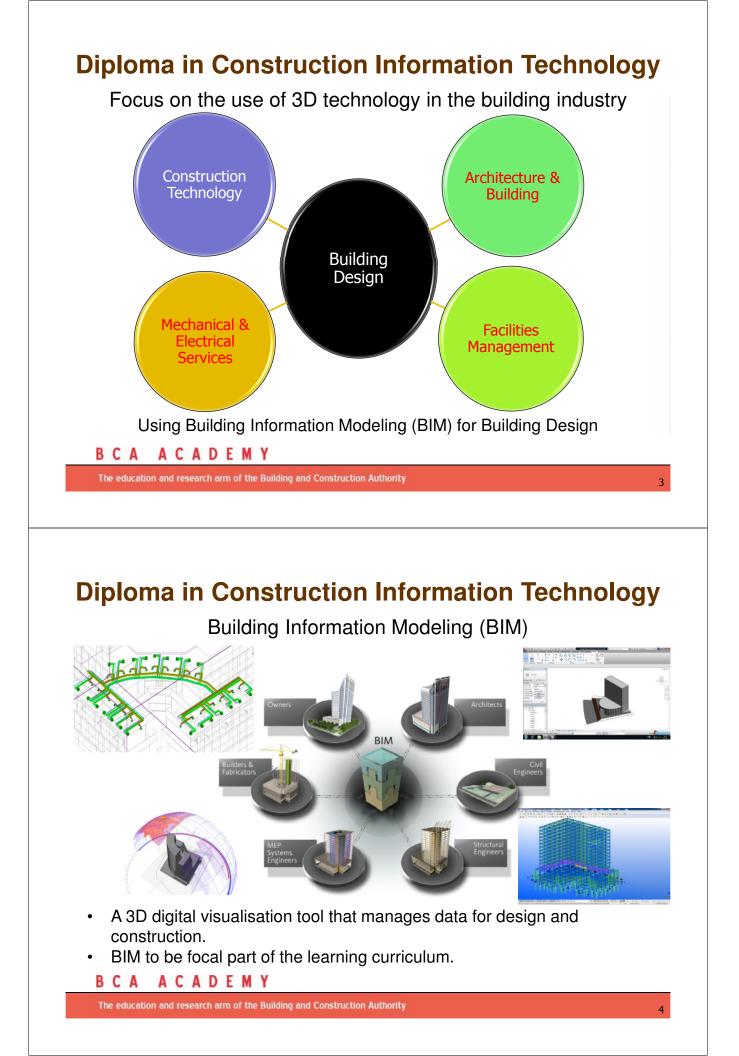
13-Jan-16

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Building Information Modeling (BIM) – Autodesk Revit

ARCHITECTURAL DESIGN

MEP ENGINEERING



STRUCTURAL ENGINEERING

BUILDING CONSTRUCTION

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Curriculum includes:

- Building and Construction Technology
- Building Services
- Building Design using Building Information Modeling (BIM)
- 3D Modeling and Visualisation
- Digital Media Presentation



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Provides holistic education

- Hands-on CAD sessions
- Organise Talk by Industry experts
- Industry Site Visit
- Project Presentation
- Industrial Attachment





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Graduates will be able to assist:

Architects to:

- Create 3-dimensional models to visualise the designs better.
- Perform sustainability analysis.
- Co-ordinate the work on the project with other professionals from various disciplines.
- Produce construction documents / drawings quickly and incorporate design changes consistently.



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Graduates will be able to assist:

Structural Engineers to:

- · Perform structural analysis of the buildings in the project.
- Design and produce construction documents and drawings of the building structures quickly.
- Facilitate fabrication of elements with greater accuracy.



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Graduates will be able to assist:

Mechanical and Electrical Engineers to:

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- Design the mechanical and electrical systems with greater accuracy.
- Plan and optimise the distribution and routes of mechanical and electrical equipment within the building project.





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Graduates will be able to assist:

Building Contractors to:

- Plan the entire construction process and material delivery through computer simulation.
- Determine, review and optimise the sequence of the building's construction.
- Use it for quantity take-offs and cost estimation.



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Graduates will be able to assist:

Facilities Managers to:

- Use it for building maintenance.
- Use it to generate as-built floor plans.
- Use it as database for building information related to HVAC equipment, plumbing fixtures, door and window schedules

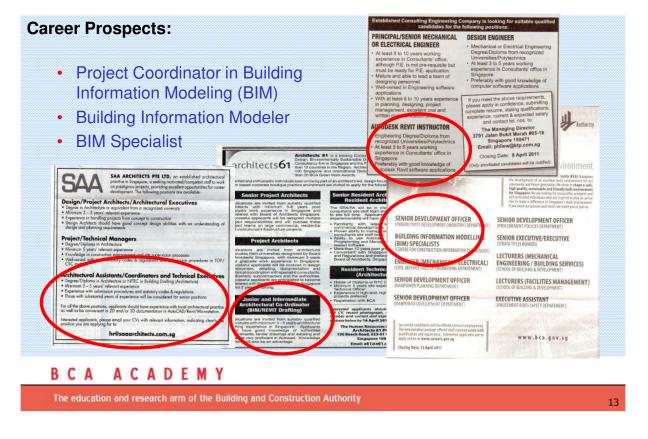




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All DCIT students are required to have a laptop.

- Hands-on CAD and IT sessions
- Relevant Software will be installed



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Thank You!



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