CERTIFICATE COURSE IN BIM MODELLING

Architecture Track

Certificate Course in BIM Modelling (Architecture Track)

The contents of this document are protected by copyright and other forms of proprietary rights. All rights, title and interest in the contents are owned by, licensed to or controlled **by BCA** and shall not be reproduced, republished, uploaded, posted, transmitted or otherwise distributed in any way, without the prior written permission of BCA. Modification of any of the contents or use of the contents for any other purpose will be a violation of BCA's copyright and other intellectual property rights. No part of the course may be recorded, reproduced or transmitted in any form or by any means, without the express written permission of the course organiser.

The reference herein to any specific commercial products, process, or service by trade name, trademark, manufacturer, or otherwise, does not constitute or imply BCA's endorsement, recommendation, or favoring by BCA.

Topic Overview

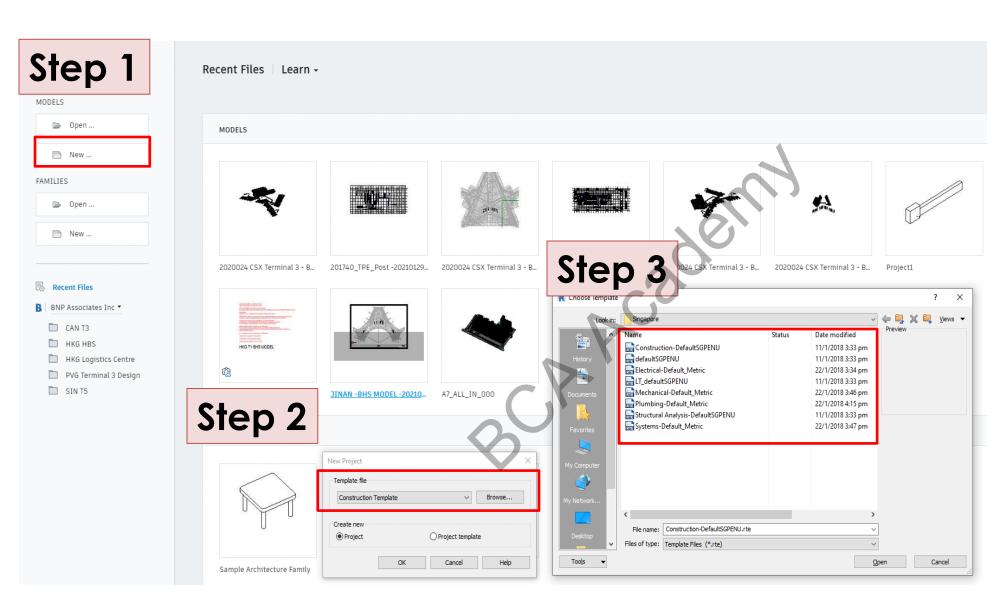
	Day 1	Day 2	Day 3	Day 4
AM	BIM Fundamentals & Revit Interface	BIM e-Submission Guidelines & Template Overview	(Assignment – 3D part finish)	
	Starting a BIM project: Project template, Insert files, Project base point, Grids & Levels, Create views	Basic 3D modeling : staircase, railing, roof, ceiling		(Assignment – 2D Documentation, Family)
PM	Site & Mass Modelling	(Assignment – 3D	Family editor interface & simple family creation	
	Basic 3D modeling : Wall, floor, ramp, doors & windows	part)	Basic 2D elements: rooms, area, annotation, dimension, tags, schedule, sheets, titleblock, exporting files.	

DAY 1 REVIT FUNDAMENTAL

What is Revit?

Revit is a single application built for **Building Information Modelling** with features for Architectural design, Structural Design, and MEP (Mechanical, Electrical & Plumbing. Revit and other applications made for **BIM** help in design, simulate, visualize, and collaborate in order to capitalize on the advantages of the interconnected data within the BIM Model.

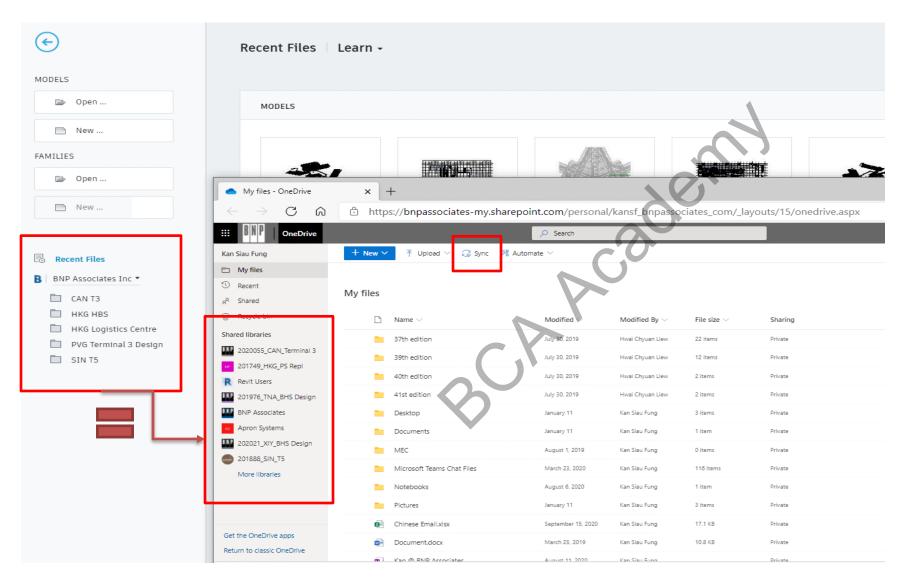




Start New Project:

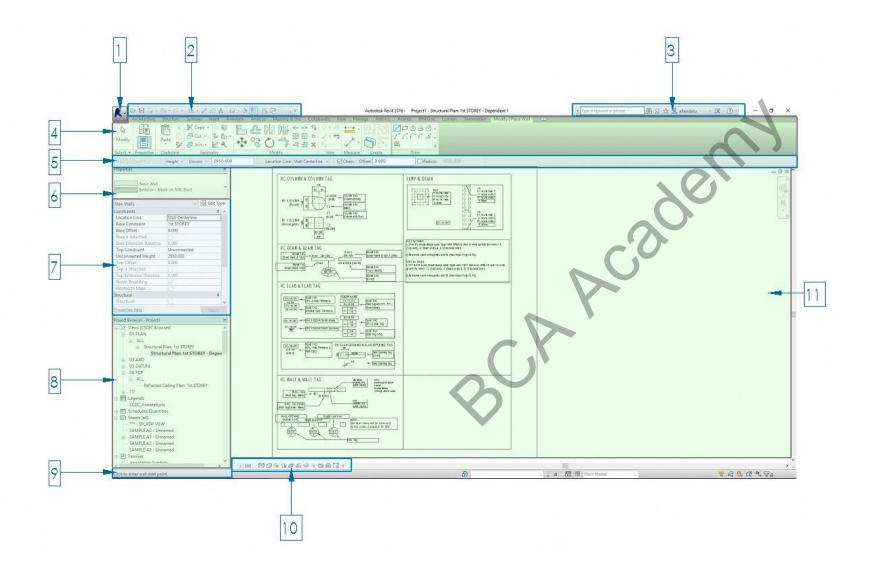
- Step 1: At Models Category >> Click "New"
- Step 2: New Project
 Dialog-Box >> At the
 Template file >
 Dropdown the list &
 select Architectural
 Template or
 Click "Browse.."
- Step 3: ChooseTemplate Dialog-Box>> Choose the

Working In Cloud (BIM360)



Working in Cloud

- Register BIM 360 account
- Create a project
- Upload your Revit working file to cloud
- Select the project folder
- Click "Sync" to your
 PC / Ladtop



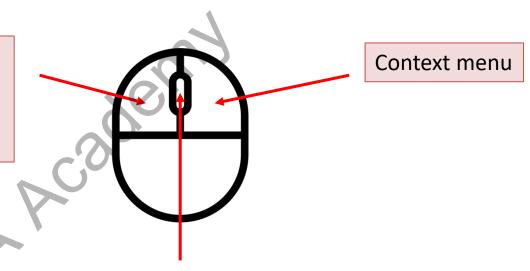
- Application Menu
- 2. Quick Access Toolbar
- 3. Info Centre
- 4. Ribbon
- 5. Option Bar
- 6. Type Selector
- 7. Properties Pallete
- 8. Project Browser
- 9. Status Bar
- 10. View Control Bar
- 11. Drawing Area

Click: Select

Click + Hold: Select an area

Click + Ctrl: Add to selection

Click + Shift: Remove from Selection



Scroll: Zoom

Click + Hold: Pan

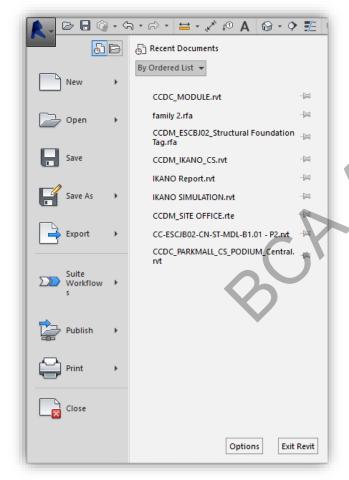
Hold + Shift: Orbit

Double Click: Zoom to fit

1. Application Menu

The application menu provides access to common file actions, such as New, Open, and Save. It also allows you to manage files using more advanced tools, such as Export and Publish.





2. Quick Access Toolbar

The Quick Access toolbar contains a set of default tools. You can customize this toolbar to display the tools that you use most often.



3. Info Center

Info Center consists of a set of tools on the right side of the title bar that enable you to access many productrelated information sources.



Depending on the Autodesk product and the configuration, these tools might differ. For example, in some products, the Info Center toolbar may also include a Sign In button for Autodesk 360 services or a link to the Autodesk Apps Store.

4. Ribbon

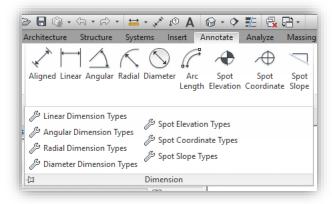
The ribbon displays when you create or open a file. It provides all the tools necessary to create a project or family.



*As you resize the window, you may notice that tools in the ribbon automatically adjust their size to fit the available space. This feature allows all buttons to be visible for most screen sizes.

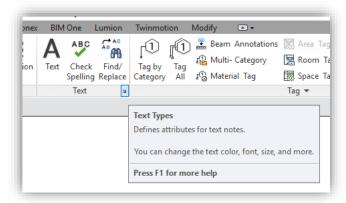
Expanded Panels

An arrow next to a panel title indicates that you can expand the panel to display related tools and controls.



Dialog Launcher

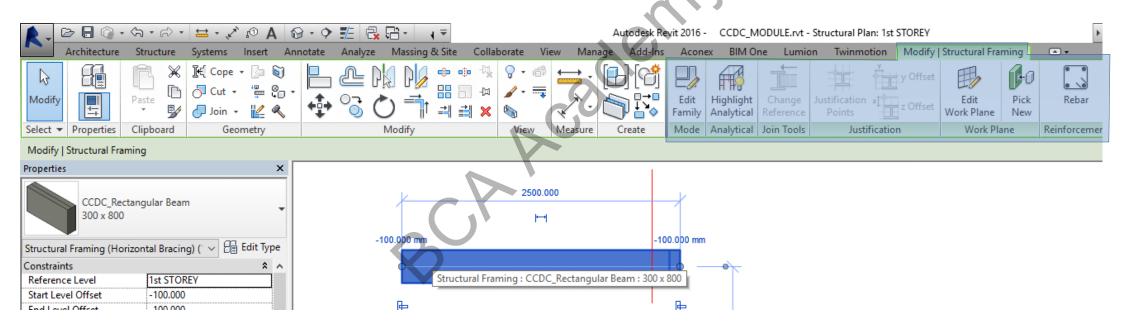
Some panels allow you to open a dialog to define related settings. A dialog-launcher arrow on the bottom of a panel opens a dialog.



4. Ribbon

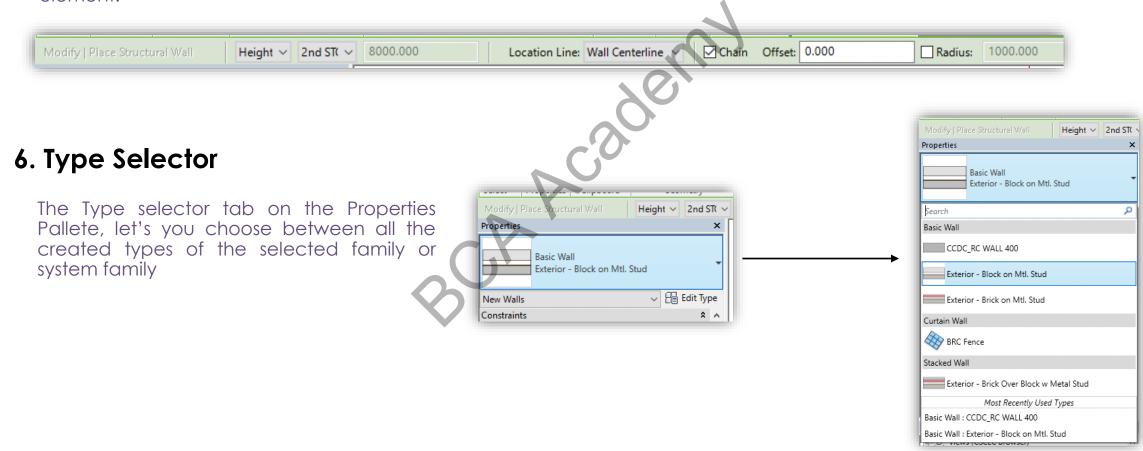
Contextual Ribbon Tabs

When you use certain tools or select elements, a contextual ribbon tab displays tools that relate to the context of that tool or element. The tab closes when you exit the tool or clear the selection.



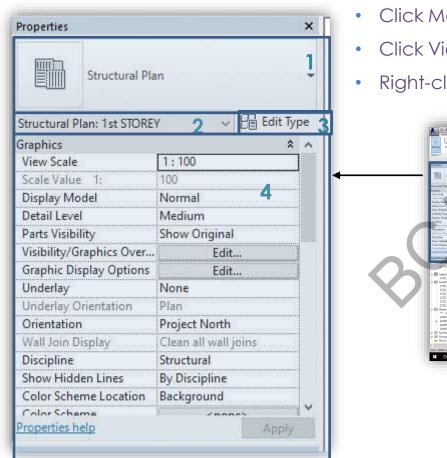
5. Option Bar

The Options Bar is located below the ribbon. It displays conditional tools dependent on the current tool or selected element.

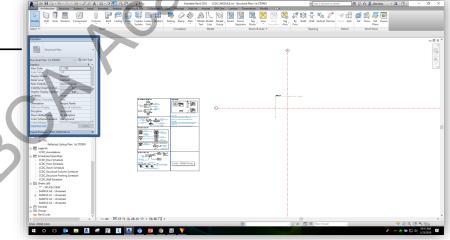


7. Properties Pallete

When you start Revit for the first time, the Properties palette is open and docked above the Project Browser on the left side of the drawing area. If you subsequently close the Properties palette, you can reopen it using any of the following methods:



- Click Modify tab > Properties panel (Properties).
- Click View tab > Windows panel > User Interface > drop-down Properties.
- Right-click in the drawing area, and click Properties.



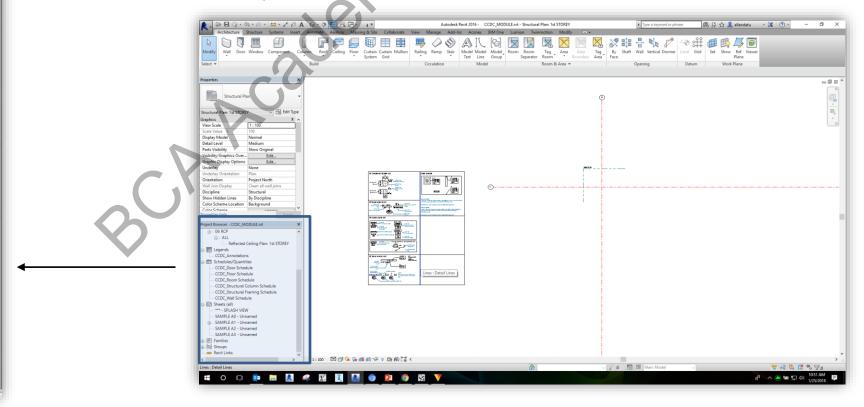
- 1. Type Selector
- 2. Properties filter
- 3. Edit Type button
- 4. Instance properties

8. Project Browser

The Project Browser shows a logical hierarchy for all views, schedules, sheets, groups, and other parts of the current project. As you expand and collapse each branch, lower-level items display.

Project Browser - CCDC_MODULE.rvt □ [Ø] Views (CSCEC Browser) □ 01 PLAN ALL Structural Plan: 1st STOREY - Structural Plan: 1st STOREY - Depe MODULE Drafting View: Drafting 1 ⊕ 03 AXO ⊕ 05 DATUM □ 06 RCP ALL Reflected Ceiling Plan: 1st STOREY 🚊 📰 Legends CCDC Annotations Schedules/Quantities ☐ 🗊 Sheets (all) *** - SPLASH VIEW SAMPLE A0 - Unnamed SAMPLE A2 - Unnamed SAMPLE A3 - Unnamed

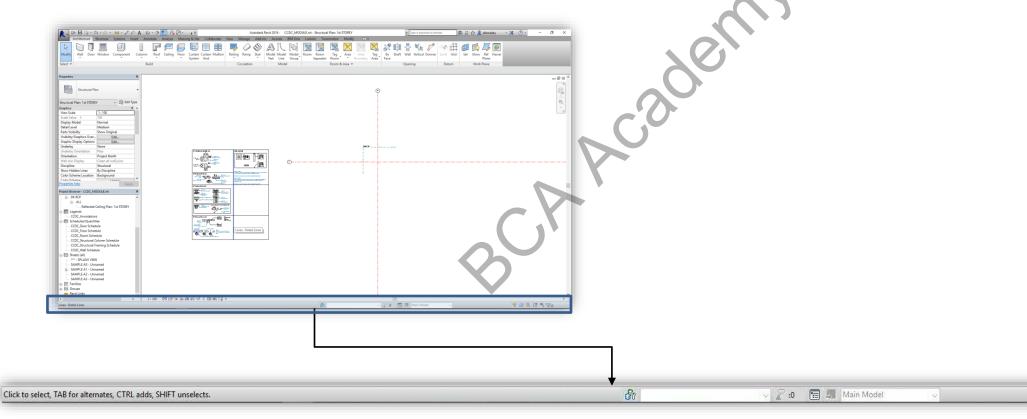
• To open the Project Browser, click View tab > Windows panel > User Interface drop-down > Project Browser, or right-click anywhere in the application window and click Browsers > Project Browser.



9. Status Bar

The status bar provides tips or hints on what to do. When you highlight an element or component, the status bar displays the name of the family and type.

The status bar is located along the bottom of the application window.



野经品品贷价了:0

10. View Control Bar

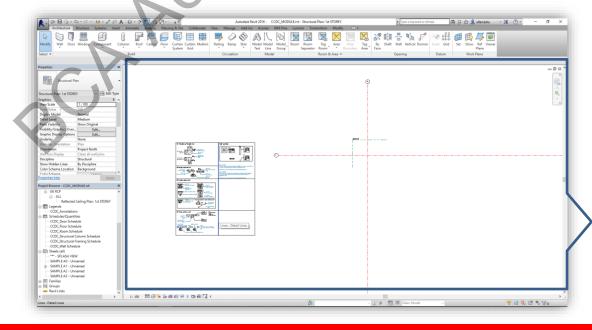
The View Control Bar provides quick access to functions that affect the current view.

The View Control Bar is located at the bottom of the view window above the status bar and includes the following tools:



11. Drawing Area

The drawing area displays views (and sheets and schedules) of the current project. Each time you open a view in a project, the view displays in the drawing area on top of other open views.



Drawing Area

BCA ACADEMY

Starting a Project...

