

3D Building Design Internship Curriculum:

Revit Architecture Basics

- Projects
- Default Project Template
- Revit File Types
- Exploring The User Interface
- The Design Bar
- Building Elements
- Revit Elements and Families
- Starting A Projects
- Levels
- Creating Levels
- Defining Levels
- Modifying Levels
- Introduction To Walls
- Starting A Design
- Temporary Dimensions
- Drawing Aids
- Guidelines For Placing Walls
- Adding & Modifying Walls
- Wall Properties

EDITING COMMANDS

- Trim / Extend
- Offset • Align • Match • Move • Copy

- Visibility Of Graphics • Array • Tap Measure

- Doors • Creating A New Door Type

- Modifying The Doors • Windows •

Creating A New Window Types

- Modifying Windows

- Components • Adding Components

- Modifying Components • Openings

- Edit Profile • Wall Openings

Managing Views • Views • Views Templates

- Working With Views • Controlling Object visibility

- Object Visibility Settings • Section And Elevation

- Elevation Views • Viewing The Building Model

- Creating The Editing Views • View Properties

- About 3d Views • Creating And Modifying The 3d Views

- About Cameras

Floors

- Creating Floors • Modifying Floors

- **Ceilings**

- Creating Ceiling • Modifying Ceiling

- **Roofs**

- Creating Roofs • Process of Sketching Roofs

- Modifying Roofs • Join / Un Join Roofs

- Openings • Shaft Opening • Dormer Openings

- Vertical Opening • Curtain Walls • Curtain Systems

- Curtain Grids and Mullions
 - Creating Curtain Walls and Modifying Curtain grids
 - Stairs And Railings • Creating Stairs and Railing
 - Modifying Stairs and Railing • Text & Tags
 - Creating Text & Tags • Detail And Drafting Views
 - Call Out • Call Out Views • Creating Reference Call Out
 - Detail View • Recusing Drafting Views

rooms • room schedules

- adding room tags and calculate room volume
- modifying room area and volume
- material take offs • legends & key notes
- controlling legend visibility • key noting
- Sheets • Creating Drawing Sheets
- Working With Drawing Sheets
- Previewing & Painting Sheets & Views
- Title Blocks • Creating & Operating Title Blocks
- Representing The Building Model
- Drawing Sheets • Working with Drawing Sheets