



# BIM Kida Institute of Engineering Software

## Revit Course Syllabus

Revit RCC

Revit Architecture

Revit MEP

### Revit Architecture Syllabus

#### **Week 1: Introduction to Revit & Project Setup**

Understanding the Revit interface and workflow

---

Setting up a new project and configuring units

---

Creating levels and grids

---

Importing and linking CAD files

---

Understanding the difference between families, components, and system elements

#### **Week 2: Walls, Floors, & Openings**

Creating walls (basic, compound, and curtain walls)

---

Modifying wall profiles and layers

---

Adding and modifying floors

---

Creating openings: Doors, Windows, and Custom Openings

---

Wall and floor join techniques

### **Week 3: Roofs, Stairs, & Railings**

Creating different types of roofs (gable, hip, shed, curved, etc.)

---

Roof modification tools (edit footprint, slopes, overhangs)

---

Designing staircases (straight, L-shape, U-shape, spiral)

---

Customizing railings and balusters

---

Creating ramps and landings

### **Week 4: Ceilings, Furniture, & Interior Elements**

Adding ceilings and customizing ceiling types

---

Placing lighting fixtures and MEP coordination basics

---

Inserting furniture and fixture families

---

Applying materials and textures for interior spaces

---

Interior detailing (baseboards, moldings, trims)

### **Week 5: Site Planning & Massing**

Creating a site topography and adding contour lines

---

Placing building pads and site components

---

Adding trees, roads, and landscape elements

---

Introduction to mass modeling and conceptual design

---

Massing for complex architectural forms

### **Week 7: Rendering, Walkthroughs & Presentations**

Applying materials and textures for realistic rendering

---

Setting up cameras and perspective views

---

Creating walkthrough animations

---

Sunlight and shadow analysis

---

Exporting high-quality rendered images

## **Week 8: Project Work & Documentation**

Working on a real-world architecture project

---

Sheet creation and title blocks

---

Setting up print layouts and exporting PDFs

---

Coordination with consultants (importing/exporting DWG, IFC)

---

Final project submission & review

## **Week 9: Introduction to Navisworks**

Overview of Navisworks and its applications

---

Understanding the Navisworks interface

---

Navigating 3D models (Orbit, Walk, Fly modes)

---

Creating viewpoints and saving camera angles

---

Using sectioning tools

---

File formats and importing models (NWC, NWD, and NWF)

## **Week 10: Clash Detection**

Introduction to clash detection

---

Setting up clash tests

---

Reviewing and managing clash results

---

Exporting and reporting clashes

---

Using sectioning tools

---

File formats and importing models (NWC, NWD, and NWF)

## **Week 11: Revit Add-ins & Tools**

DiRoots (Automation & Productivity Tools)

---

PyRevit

---

## Dynamo for Revit