	Project No.	Date	Doc. No.	Serial No	Rev.	Proj. dep.
	3009	*2025*	*ARC-3009*	*1/2025*	*00*	*Architecture*

EOTSS Doc. CODE : **EOTSS/CIVIL/3009-ARC /2025**

المكتب الهندسي لخدمات التكنولوجيا و البرمجيات

Engineering office for Technology and Software Services

🧱 Revit Architecture: Building Information Modeling (BIM)

Code: 3009-ARC

🧱 Introduction

Revit Architecture is an industry-standard Building Information Modeling (BIM) software developed by Autodesk. This course is tailored for architects and advanced design professionals aiming to elevate their digital modeling skills. Participants will gain comprehensive knowledge in creating coordinated, consistent, and computable building models.

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Tel: **01102060500-01144470856**

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📝 Course Description

This intermediate-to-advanced level course provides hands-on training in using **Revit Architecture** to design, document, and visualize buildings in 3D. Learners will explore BIM principles and apply them through real-world architectural projects. From creating walls and floors to setting up schedules and rendering final presentations, this course emphasizes a data-driven, collaborative approach to architectural design.

Participants will learn to:

- Model and document architectural elements.

- Customize and manage families and project settings.

- Generate sections, elevations, and construction documentation.

- Collaborate using linked models and manage multi-disciplinary data.

- Render high-quality images and export files for further use.

🎯 Objectives

- Understand and apply core concepts of Building Information Modeling (BIM).

- Design detailed 3D architectural models using Revit.

- Coordinate structural and architectural information within a single intelligent model.

- Produce professional documentation, schedules, and realistic renderings.

🧱 Course Outline (Detailed)

Week 1 – Getting Started

- Introduction to BIM and Revit interface

- Starting a new project and setting units

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- Creating and editing walls and floors

Week 2 – Building Core Elements

- Inserting and modifying doors and windows

- Modeling roofs and stairs

- Understanding and customizing families

Week 3 – Interior Modeling & Visualization

- Placing furniture and interior components

- Creating sections, elevations, and 3D views

- Basic lighting and material settings

Week 4 – Project Data & Collaboration

- Creating schedules and quantity takeoffs

- Linking external files and managing references

- Collaboration tools in Revit (worksets and central files)

Week 5 – Documentation & Rendering

- Preparing sheets for printing

- Exporting to AutoCAD and IFC formats

- Rendering high-quality images and walkthroughs

Week 6 – Final Project

- Full architectural model of a building

- Final presentation with drawings and visual output

- Peer and instructor feedback session

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📅 Time Frame

Duration: 6 Weeks
Total Hours: 18 Hours
Level: Intermediate to Advanced
Format: Weekly sessions (3 hours/week) including hands-on practice, assignments, and a final project.

📌 Learning Outcomes

By the end of this course, participants will be able to:

- Navigate the Revit user interface and manage project settings.

- Model architectural components including walls, floors, doors, windows, and roofs.

- Use parametric families and edit customized components.

- Generate sections, elevations, and 3D views with annotations.

- Manage building data with schedules and quantities.

- Collaborate across disciplines using linking and worksharing.

- Render and export realistic project presentations.

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