

Course 1: Dynamo, The Visual Scripting Platform

CONTENT:

1. Introduction to UI, Package Manager, Uses and Applications
2. Basic Geometry – Points, and Lines
3. Basic Geometry – Curves, and Surfaces
4. Basic Geometry – Vectors and Solids
5. Lacing and Lists
6. Use of Code Blocks, Custom Node Creation and Workflow, and Best Practices
7. Import and Export from Excel to Dynamo and Vice versa & Dashboard with Dynamo
8. Managing Revit Data in Dynamo and Error handling & Use of Dynamo Player
9. Example Dynamo scripts
10. Basics of Generative Design with Dynamo

Number of Sessions: 25 Sessions International Candidates

Course 2: Unlocking the power of dynamo and Revit with Python

CONTENT:

1. Introduction to Python
2. IronPython and CPython
3. Basic Syntax of Python
4. Namespace, Class, function, Methods and Properties
5. Python Data types and Variables
6. Loops, Statements and Conditional statements.
7. Dynamo python interface, Import clr, libraries and Error handling in Python for Dynamo
8. Basic OOPS, Revit API documentation, IronPython Programming in Dynamo for Revit
9. Different Revit API methods Introduction and usage
10. Accessing Family documents and parameters using Python

Number of Sessions: 30 Sessions

Course 3: Revit API development with C#

CONTENT:

1. Installing Visual Studio and Introduction to Visual Studio IDE.
2. Introduction to C# and Basics of .Net
3. Basic Syntax of C#
4. C# Data types and Variables
5. Namespace, Class, function, Methods and Properties
6. WPF
7. Loops, Statements and Conditional statements.
8. OOPS
9. Revit API Documentation
10. Revit API basics
11. Working with Revit elements
12. Geometry – Points, Lines, Curves, Surfaces and Solids
13. Selection, Transaction and Editing Elements
14. Debugging, Troubleshooting and fixing errors
15. Excel Automation and Revit-Excel Integration

Number of Sessions: 30 Sessions

Total Package – Rs. 25000/-, International Candidates - \$400