



Protrainy

Making you Industry Ready [®]



Advanced Certification Program in

B BUILDING
I INFORMATION
M MODELING



WHY THIS PROGRAM ?

- **The Program Equips Students With The Skills And Attributes Required To Be Effective Civil Engineers And Aec Industry.**
- **Extensive Knowledge In The Field Of Bim Management And AEC Industry Which Is The Need Of Any Construction Company.**
- **It Makes The Graduates Ready To Develop Applications, Take Appropriate Decisions, And Expand Their Business To Compete With The Existing And Prospective Rivals With The Knowledge Acquired During The Course Period**



WHY THIS PROGRAM ?

- LIVE 1 on 1 Training and Doubt solving
- A to Z Program LIVE
- Trainers are having total 10 years experience in India and Europe
- Lowest Price and Placement linked
- Revit, Naviswork, Dynamo and other softwares
- Both offline and Online available
- Recognized certificate and referrals



LET US MAKE YOU INDUSTRY READY[®]

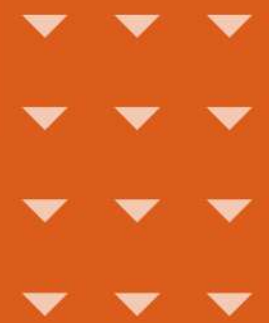
COURSE REQUIREMENTS

- **Zero to basics knowledge of BIM & AEC industry**
- **A computer machine with 100 GB free space, 4GB and above, at least 2GB graphics card**
- **A good internet**
- **"Learning Will"**

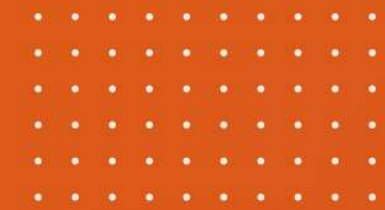


PROGRAM CONTENT





- **BIM terminologies & definitions (Theoretical Approach)**
- **Revit Architecture, Structure & Coordination (Basics to Advanced)**
- **CAD (Essential training) for CAD to BIM**
- **Navisworks (Essential training)**
- **Assignments & project-based**





DETAILED COURSE OVERVIEW

CONCEPT OF BIM - Theoretical (1W-10Days)

- BIM: What, Why & Where?
- BIM Dimensions
- Over the wall syndrome
- Project lifecycle
- Advantages & Disadvantages
- Collaborations & IPD
- LOD & LOI
- Learn BIM
- Interoperability

SOFTWARE TRAINING

AUTODESK REVIT

- Revit: What, Why, Where?
- Interface
- File Extensions
- Creating new project
- Understanding grids, levels, section, elevations, views massing & site tab
- Covering Revit basic tools
- Assignment for practice 01
- Architecture Tab
- Structure Tab
- Modify Tab
- Assignment for Practice 02
- Manage Tab
- View Tab
- Annotate Tab
- Assignment for practice 03



REVIT ADVANCED

- Parameters & Parametric
- Wall assembly & layers
- Filling parameters
- Sheets & Schedules
- Title block
- Visibility graphics
- Overrides
- Sweeps & reveal profile
- Steel detailing



THEORY CLASS

- Sheet creation & review placement
- Assignment for practice 04



CAD TO BIM

- Understanding CAD & layers in AutoCAD
- Why CAD is obsolete?
- Linking & importing with base points
- Working of CAD in Revit
- Creating BIM model G+2 in Revit using Linked CAD Files
- Assignment for practice 05

BIM MODELLING METHODOLOGIES IN AN ORGANIZATION: HOW?

- CAD to BIM, Scan to BIM, IFC to BIM, PDF to BIM (Basic working process)
- BIM standards & codes
- How to increase pace in Revit projects?



REVIT ARCHITECTURE

- Introduction to REVIT
- Creating Walls
- Creation Floors & Ceilings
- Placing Doors, Windows & Furniture
- Railing, Ramp & Stairs
- Modeling of Roofs
- Camera, Render, walkthrough
- View Setup
- Working On Sheets
- Working on annotations on Sheets
- Annotation of the Documents
- Schedule
- Project Collaboration
- Components Creation Using Model In Place
- Parametric Family Modeling

REVIT STRUCTURE & MEP

- Drawing and Modifying Structural Elements
- Structural Walls & Columns
- Foundations
- Beams
- Floors
- Framing
- Slabs
- Vertical Circulation
- Truss, Bracing, and Steel Connection
- Structural Reinforcement
- Preparing Project for Structural Analysis
- Robo Structural Analysis
- MEP (Energy analysis, HVAC Design, Plumbing Design)

ADDITIONAL PLUG-IN

- Dynamo (User Interface, Basis)
- NavisWorks



RENDERING

- Concept of rendering
- Placing camera and creating view in Revit
- Workaround with Revit graphics & exporting options
- Rendering views
- "Enscape" for real-time rendering & walkthrough

NAVISWORKS

- Coordination & Collaboration
- What is clash?
- Interdisciplinary model / Master Model
- Navisworks: What, Why?
- Linking a BIM model selection tree
- Timeliner
- Clash Detection
- Extracting Clash report
- Removing clash in Revit using Clash report
- Clash less model



MIXED LEARNINGS / EXPLAINING CONCEPTS

- Stages of BIM modeling
- Types of drawings
- Scan to BIM
- IFC
- Level of information needed
- Hierarchy in an organization
- Communication with managers
- Process of working in a BIM service providing firm

PROJECT PHASE / ASSIGNMENT CUM INTERNSHIP

- CAD to BIM project
 - Residential project
 - Commercial / Institutional project
 - Structural / Infrastructure project
 - Markup / Redevelopment Project
- IFC to BIM
 - Residential Commercial project



CAREERS / PORTFOLIOS

- **Jobs and Interview in Partner companies**
- **Job hunting approach**
- **Help in portfolio creation**
- **Further study plan**
- **Salary & Roadmap for future**
- **Career**
- **Designations**
- **Long tern growth & scope**



PROGRAM OUTCOME





- **WILL MAKE STUDENTS SKILLED AND JOB-READY
BASICS TO ADVANCED**
- **KNOWLEDGE ABOUT REVIT ARCHITECTURE AND
STRUCTURE**
- **HANDS-ON TRAINING IN NAVISWORKS AND CAD
RECEIVE A CERTIFICATE**



SCHEDULE

- **DURATION 4 MONTHS**
- **1-2 HOURS DAILY/5 DAYS A WEEK**
- **CLASS TIME AFTER 8 PM IST**



Protrainy recognized by -



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