Protrainy

Making you Industry Ready ®

Protrainy

Advanced Certification Program in

BIM BUILDING INFORMATION MODELING

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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

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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 refferals

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LET US MAKE YOU INDUSTRY READY®

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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"

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PROGRAM CONTENT

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- 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

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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

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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 id 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?

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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

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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

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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

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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

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PROGRAM OUTCOME

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

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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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+91 8145571143

www.protrainy.com

contact@protrainy.com