



MILESTONE

INSTITUTE OF TECHNOLOGY

Upskill Reskill Stand Out



Since 2004...
YEARS OF
EXCELLENCE

31000+

Enrolled Students

17000+

Placed Students

150+

Company Tie-ups

100+

Job Oriented Courses

Advance Your Career with

Master Diploma Courses

About us

Milestone Institute of Technology is a prominent institution that aims to be a global leader in teaching programs and the preferred training hub for the IT-ITES, Architecture/Construction, Mechanical, Graphic Design, Industrial Automation and Information Technology sectors. With a focus on providing quality qualifications, Milestone strives to enhance individuals' future prospects and opportunities, ensuring that their credentials are widely recognized and valued by employers and universities worldwide. One of Milestone's unique strengths lies in its ability to align its training programs with industry requirements. Through its subsidiary, **Milestone PLM Solutions Pvt. Ltd.**, Offers engineering design services to global companies, allowing students to receive practical,

hands-on training that prepares them for real-world challenges. Milestone Institute of Technology offers master diploma courses tailored to the needs of ITI, Diploma, and Graduate Engineering students specializing in Mechanical, Civil, Architectural, Interior, Graphic Design, Industrial Automation, and Information Technology streams. By providing comprehensive and industry-oriented education, Milestone equips its students with the skills and knowledge necessary to thrive in their respective fields. With a commitment to excellence and a forward-looking approach, **Milestone Institute of Technology** strives to shape the future of education by producing highly skilled professionals who contribute to the growth and development of industries on a global scale.



Mission and Vision

Our mission at **Milestone Institute of Technology** is to provide a comprehensive education solution that empowers students and enables them to excel in their chosen fields. **Milestone** believes in delivering a high-quality, hassle-free education experience to our students and thus ensuring their success and growth. Our vision is to be a global and unique leader of transformative education solutions. We aim to revolutionize the learning experience by leveraging technology and offering a diverse range of programs that meet the evolving needs of students and industries worldwide. Through our continuous efforts towards excellence, Milestone aspire to empower students and contribute to the advancement of society as a whole.

Why study with MIT?

What sets MIT apart from the rest of the institutions?

- From Last 20+ years we are in Training and Engineering Design Services, consistently upholding our commitment to excellence.
- We employ specialised visual teaching methods to accelerate your learning. All courses feature instruction using the latest software versions.
- Our highly skilled faculty deliver top-notch professional knowledge and offer personalised training to each student.
- We keep tracking student progress through assignments and projects.

Milestone Education Mission

Milestone aims to be a global leader in teaching programmes and the first-choice training hub for IT-ITES, Architecture/Construction, Mechanical, Industrial Automation, Graphic Design and IT sectors. Our goal is to enhance an individual's future prospects and opportunities by providing high-quality qualifications that are widely recognized and valued by employers and universities worldwide. Milestone-trained students are equipped with skills tailored to industry requirements, as Milestone also provides engineering design services to global companies through Milestone PLM Solutions Pvt. Ltd. Additionally, Milestone offers Master Diploma courses for ITI, Diploma, and Graduate Engineering students in the Mechanical, Civil, Architectural, Interior, Graphic Design, Industrial Automation, and IT streams.



Mechanical Engineering

Enhance your career with leading Mechanical Engineering courses in CAD, CAM, and CAE software. Our classes are designed to boost your skills and expertise through live projects and advanced learnings. Master essential techniques and gain impactful insights for successful career making in various domains from aerospace to automotive.

Graphic Design Software

Mechanical Engineering is a diverse field that involves designing, developing and analysing machines, systems, and devices. As one of the oldest and broadest engineering disciplines, it offers numerous career opportunities across various domains. Whether you're interested in aerospace, sheet metal, plastic products or automobile design, our mechanical engineering courses provide a comprehensive understanding and practical experience to excel in these areas..



Reverse Engineering | 3d Printing

Learn Reverse Engineering techniques and latest 3d printing technology in our state of art lab.



Live Industry Projects

Live Industry Projects/Internships offer invaluable real-world experience, bridging the gap between theoretical learning and professional practice.



Placement Assistance

We assure your successful career. Thanks to our tie-up with more than 100 companies.

Master the Skills in **Product Design and Analysis**

Master Product Design and Analysis course with covers the full spectrum of product development, from concept to production. Learn design thinking, sketching, CAD, and prototyping while mastering ergonomics, materials selection, and manufacturing processes to develop functional, innovative products.

Overview

Gain in-depth knowledge of the product development process, from conceptualization to final production. Through a blend of theory and hands-on projects, Product Design and Analysis course provides a deep dive into CAD, prototyping, ergonomics, and design for manufacturing to prepare you for careers in product design.



Why Choose This Course?

This course is ideal for aspiring product designers looking to build innovative, functional designs that meet market needs. With hands-on experience and expert guidance, you'll be prepared to excel in various industries.



100% Placement Assistance Program

Job placement assistance readiness.



Real time projects

Receive continuous feedback to enhance your learning.



Continuous Feedback

Receive continuous feedback to enhance your learning.

Master the Skills in Product Design and Analysis

TRAINING PRICE

Contact: +91 98198 57244 | 8454065555

COURSE DURATION

24 Weeks(Regular / Weekend) 1& ½ Hour

ONLINE / OFFLINE

Yes / Yes

Prerequisites

Basic Computer Skills

Topics Covered

Design Thinking and Concept Development:

- Overview of Design Thinking Process
- Rapid Prototyping Methods
- Concept Validation and Iteration

Sketching and Visualization Techniques

- Sketching Fundamentals
- Conceptual Visualization
- CAD-Based Visualization

1) AutoCAD Software

- Overview of AutoCAD Mechanical
- Introduction to CAD
- 2D Fundamentals

Drawing Basics and Modifying Tools

- Introduction to CAD
- 2D Fundamentals
- Preparation of sketches: Lines, Circles, Rectangular etc
- Dimension Style
- Hatch, trim, extend, tables etc

Layers, Blocks, and Object Management

- Layer Overview, modifying layer attributes
- Editing & modification of sketches
- Scaling objects, views
- Duplication using mirror, copy, pattern etc.
- Creating & editing blocks

Dimensioning and Detailing Mechanical Parts

- Dimensioning techniques
- Tolerance symbols, Datum,

Finish, welding symbols etc

Isometric Drawing

- Concept
- Snap
- Drawing Isometric objects
- Dimensioning

AutoCAD 3D

- Introduction to 3D
- Extruding and revolving objects
- UCS concept and it's use
- Boolean using union, subtract and intersect
- Standard views

2) Solidworks Software

Solid Modeling

- Introduction and Interface
- Sketching and Parametric Solid Models
- Features: Extrude, Revolve, Sweep, Loft
- Part Modifications: Fillet, Chamfer, Shell, Draft, and Patterns

Assembly Design

- Creating and Managing Assembly Models
- Defining Assembly Constraints

Surfacing

- Advanced Lofting and Sweeping Techniques
- Surface Modifications and Tweaks

Sheet Metal

- Bend, Jog, Dimple, and Flange Features
- Creating Flat Patterns and Advanced Features

Drafting

- Generative Drafting and Views (Exploded, Section, Detail)
- BOM and Annotations

Animation and Mechanism Design

- Introduction to Product Animation
- Defining Joints and Simulating Product Movements

Extra Features

- File Management and Blueprint Reading
- Applying Tolerances using IS Standards

Choose Any One From These Softwares

1. UG-NX
2. Ansys
3. Creo
4. Inventor
5. Catia
6. Revit MEP

3) NX Software

Introduction to NX Software

- Introduction
- Creating Parts
- Getting parts geometric information

3D Part and Assembly Design:

- Sketcher mode
- Dimensioning
- Sketch planes
- Extruding, Revolving, Sweep features
- Parametric Modeling
- Modifying parts using History
- Adding Fillet, Chamfer,

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- Placement Support
- Free eBook
- Course Material

Exams and Certifications:

- Government Certified
- Autodesk Certified
- MIT Certified

Who should attend

- Diploma Students
- Mechanical Engineers
- BE / BTech Mechanical Students

Targeted Job Roles

- CAD Engineer
- Product Designer
- Mechanical Design Engineer
- MEP Engineer
- HVAC Design Engineer
- MEP Electrical Engineer
- Fire Protection Engineer
- Building Systems Coordinator

Master the Skills in Product Design and Analysis

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Prerequisites

Basic Computer Skills

Topics Covered

- Shell and Draft
- Creating Patterns

Assembly Design:

- Creating Assembly Model
- Managing Assembly Models
- Defining Assembly constraints

Generative Drafting

- Plotting various views
- Exploded Views and BOM
- Dimensioning
- Section, Detail and Auxiliary views
- Annotations, Symbols and Datum

Advance Surfacing:

- Creating lofted features
- Creating advance sweep features
- Creating Tweak features
- Modifying features
- Advanced surface modeling

Sheet Metal:

- Introduction to Sheet Metal
- Bend, Jog, Dimple and Flange features
- Hole cut, Lofted Flange features
- Creating Flat Pattern

Advance Features

- Import, Export using UG NX
- UG NX File Management
- Blue Print Reading
- How to apply Tolerances using IS Standards

4) Ansys Software

Introduction to Ansys Software

- Introduction to FEA
- Starting ANSYS Workbench
- Exploring the GUI
- Graphics & Picking

FEA for Stress and Structural Analysis

- **Pre-Processing**
- The Database and Files
- 2D Modeling
- Solid Modeling
- How to Import Geometry
- Material Properties
- Real Constants
- Meshing – Multiple Element Attributes, Controlling Mesh Density
- Mapped Meshing, Hex-to-Tetra Meshing, Mesh Extrusion & Sweep Meshing
- Loads and Boundary conditions

Post-Processing

- Introduction to Solvers
- Read, Write and Plot the Results
- Report Generation
- Animating Result
- File Handling
- Exporting Results to other Post-Processor

Types of Analysis

- Structural Linear Static, Transient
- Structural Non Linear = Time, Material, Contact and Geometric
- Beam Modeling, Beam Meshing, Beam Properties & Loading
- Symmetric boundary conditions
- Buckling Analysis

- Modal Analysis Procedure
- Harmonic Response Analysis
- Vibration
- Thermal Analysis – Steady State & Transient
- Conduction, convection
- Structural Thermal Analysis (Couple Field)
- Goal Driven Optimization

Projects

- Capstone Projects / Live Projects

5) Creo software

Part Design

- Introduction to Creo Software
- Introduction
- Creating Parts
- Getting parts geometric information

3D Solid Modeling

- Sketcher mode
- Dimensioning
- Sketch planes
- Extruding, Revolving, Sweep features
- Parametric Modeling
- Modifying parts using History
- Adding Fillet, Chamfer, Shell and Draft
- Creating Patterns

Assembly Design

- Creating Assembly Model
- Managing Assembly Models
- Defining Assembly constraints

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- Mechanical Engineers
- BE / BTech Mechanical Students

Targeted Job Roles

- CAD Engineer
- Product Designer
- Mechanical Design Engineer
- MEP Engineer
- HVAC Design Engineer
- MEP Electrical Engineer
- Fire Protection Engineer
- Building Systems Coordinator

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COURSE DURATION

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ONLINE / OFFLINE

Yes / Yes

Prerequisites

Basic Computer Skills

Topics Covered

Drafting:

- Generative Drafting
- Plotting various views
- Defining Assembly constraints

Advance Surfacing:

- Creating lofted features
- Creating advance sweep features
- Creating Tweak features
- Modifying features
- Advanced surface modeling

Sheet Metal:

- Introduction to Sheet Metal
- Bend, Jog, Dimple and Flange features
- Hole cut, Lofted Flange features
- Creating Flat Pattern

Animation:

- Introduction to Animation
- Defining various joints
- Animation Setup
- Animation

Extra Features:

- Import, Export using Creo
- Creo version management
- Blue Print Reading.
- How to apply Tolerances using IS Standards

Course Project

- Real Life Project / Live Project

6) Inventor software

Introduction to Inventor Software

- Introduction
- Creating Parts
- Getting parts geometric

- information

3D Solid Modeling

- Sketcher mode
- Dimensioning
- Sketch planes
- Extruding, Revolving, Sweep features
- Parametric Modeling
- Modifying parts using History
- Adding Fillet, Chamfer, Shell and Draft
- Creating Patterns

Assembly Design

- Creating Assembly Model
- Managing Assembly Models
- Defining Assembly constraints

Drafting

- Generative Drafting
- Plotting various views
- Exploded Views and BOM
- Dimensioning
- Section, Detail and Auxiliary views
- Annotations, Symbols and Datum

Sheet Metal

- Introduction to Sheet Metal
- Bend, Jog, Dimple and Flange features
- Hole cut, Lofted Flange features
- Creating Flat Pattern

Advance Features

- Blue Print Reading
- How to apply Tolerances using IS Standards
- Presentation

Projects

- Capstone Projects / Live Projects

7) CATIA software

Introduction to CATIA Software:

- Introduction
- Creating Parts
- Parts geometric information

3D Solid Modeling:

- Sketcher mode
- Dimension
- Sketch planes
- Pad, Shaft, Multi section, Rib etc features
- Parametric Modeling
- Modifying parts using History
- Adding Fillet, Chamfer, Shell and Draft
- Creating Patterns
- Material

Assembly Design:

- Creating Assembly Model
- Managing Assembly Models
- Defining Assembly constraints

Generative Drafting

- Plotting various views
- Exploded Views and BOM
- Section, Detail and Auxiliary views
- Annotations, Symbols and Datum

Surfacing

- Creating lofted features
- Creating advance sweep features
- Creating Tweak features
- Modifying features
- Advanced surface modeling

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Exams and Certifications:

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- MIT Certified

Who should attend

- Diploma Students
- Mechanical Engineers
- BE / BTech Mechanical Students

Targeted Job Roles

- CAD Engineer
- Product Designer
- Mechanical Design Engineer
- MEP Engineer
- HVAC Design Engineer
- MEP Electrical Engineer
- Fire Protection Engineer
- Building Systems Coordinator



Master the Skills in **Product Design and Analysis**

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COURSE DURATION

24 Weeks (Regular / Weekend) 1 & ½ Hour

ONLINE / OFFLINE

Yes / Yes

Prerequisites

Basic Computer Skills

Sheet Metal

- Introduction to Sheet Metal
- Bend, Jog, Dimple and Flange features
- Hole cut, Lofted Flange features
- Creating Flat Pattern

Wireframe & Surface Design

- Creating multisection features
- Creating advance sweep features
- Creating features
- Modifying features
- Advanced surface modeling

Advance Features

- Import, Export using UG NX
- UG NX File Management
- Blue Print Reading
- How to apply Tolerances using IS Standards

8) Revit MEP software

Introduction to Revit MEP

- Building Information Modeling (BIM) with Revit MEP
- Overview of the Revit MEP Interface
- Opening a Revit MEP Project
- Viewing Commands

MEP Systems Modeling Basic Drawing and Editing Tools

- General drawing tools
- Editing Revit elements
- Basic modifying tools
- Additional editing tools

Starting Revit MEP Projects

- Starting Revit projects
- Linking Revit models
- Copying and monitoring linked files
- Setting up levels

Views

- Duplicating views
- Adding callout views
- Setting the view display
- Creating elevations
- Creating sections
- Working with ceilings

Systems

- About Revit MEP Systems
- Working with Components
- Creating Systems – Overview
- System Graphics
- Connecting Components
- Analyzing Systems

Spaces and Zones

- Creating spaces
- Creating zones
- Creating color schemes
- Creating Groups

HVAC Design in Revit

- About HVAC systems
- Adding terminals and mechanical equipment
- Adding ductwork
- Creating duct systems
- Automatic ductwork layouts

Electrical Systems Design

- About electrical systems
- Placing electrical components

- Creating electrical circuits
- Cable trays and conduit
- Electrical panel schedules

Plumbing Systems Design

- About plumbing systems
- Adding plumbing fixtures
- Drawing piping for plumbing systems
- Working with plumbing systems

BIM Coordination

• Construction Documents

- Setting up sheets
- Placing and modifying views on sheets
- Printing sheets

Annotating Construction Documents

- Working with dimensions
- Working with text
- Adding detail lines and symbols
- Creating legends

Tags and Schedules

- Adding tags
- Working with schedules
- Creating schedules

Detailing

- Setting up detail views
- Creating details
- Annotating details
- Patterning

Projects

- Capstone Projects / Live Projects

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- Course Material

Exams and Certifications:

- Government Certified
- Autodesk Certified
- MIT Certified

Who should attend

- Diploma Students
- Mechanical Engineers
- BE / BTech Mechanical Students

Targeted Job Roles

- CAD Engineer
- Product Designer
- Mechanical Design Engineer
- MEP Engineer
- HVAC Design Engineer
- MEP Electrical Engineer
- Fire Protection Engineer
- Building Systems Coordinator



Master Skills With Civil Engineering

Develop a solid foundation in civil engineering design with our Civil Engineering Design Course, focusing on real-world applications. Learn to design safe and sustainable infrastructure projects, preparing you for success in the fast-paced field of civil engineering.

Overview

This diploma provides a comprehensive education in civil engineering design, covering structural analysis, construction methods, and industry-standard tools. This civil engineering design course equips you with the skills to design safe, efficient, and sustainable infrastructure, from buildings to bridges.



Why Choose This Course?

Prepare to make a lasting impact in civil engineering with a solid foundation in traditional and modern design techniques, preparing you for a wide range of infrastructure projects.



100% Placement Assistance Program

Job placement assistance readiness.



Real time projects

Receive continuous feedback to enhance your learning.



Continuous Feedback

Receive continuous feedback to enhance your learning.

Master Skills With Civil Engineering

TRAINING PRICE	COURSE DURATION	ONLINE / OFFLINE
Contact: +91 98198 57244 8454065555	32 Weeks (Regular / Weekend) 1& ½ Hour	Yes / Yes

Prerequisites

Basic Computer Skills

Topics Covered

• Introduction to Civil Engineering Design

- Learn the core principles of civil design through hands-on training with:

- **Civil AutoCAD** – for 2D drafting of site layouts and structural plans

- **Revit Structure** – for 3D modeling and BIM-based structural detailing

- **STAAD Pro** – for structural analysis and load calculations

- **ETABS** – for high-rise building design and seismic analysis

• Civil AutoCAD Software

• Introduction to AutoCAD Civil

- Overview and Interface
- Basic Commands and Tools

- Introduction to CAD
- 2D Fundamentals

• Site Design and Analysis

- Preparation of sketches: Lines, Circles, Rectangular etc
- Dimension Style
- Layer Overview, modifying layer attributes
- Editing & modification of sketches
- Scaling objects, views
- Duplication using mirror, copy, pattern etc
- Dimensioning techniques
- Creating & editing blocks
- Hatch, trim, extend, tables etc

• Isometric Drawing

- Concept
- Snap
- Drawing Isometric objects
- Dimensioning

• AutoCAD 3D

- Introduction to 3D
- Extruding and revolving objects
- UCS concept and its use
- Boolean using union, subtract and intersect
- Standard views

• Advance Features

- Photo rendering
- Printing Documents
- Templates Insertion
- Motion path Animation

• Project Work

- Real-Life Projects
- Capstone Project

• 2. Revit Structure Software

• Introduction to Revit Structure Software

- Overview and Interface
- Basic Tools and Functions
- About Building Information Modeling
- About Bidirectional Associativity

• Revit Structure Basics

- Exploring the User Interface
- The Revit Structure User Interface
- The Ribbon Framework
- Working with Structural Elements and Families
- About Structural Elements
- About Families

• Viewing the Structural Model

- Working with Views
- About Views
- View Parameters
- Controlling Object Visibility
- About Controlling Object Visibility
- View Templates
- Modifying Line Styles
- Using Filters
- Working with Elevation and Section Views
- About Elevation and Section Views
- Controlling Visibility of an Elevation Tag
- Working with 3D Views
- About 3D Views
- Navigating Through a 3D View
- About Cameras
- Creating and Modifying Camera Views
- Changing Material Properties

• Starting a New Project

- About Projects
- Creating Project Templates
- Creating elevations
- Adding and Modifying Levels
- About Levels
- Adding and Modifying Grids
- About Grids
- Methods of Creating and Modifying Grid Lines
- Creating Structural Columns and Walls
- Working with Structural Columns
- About Structural Columns
- Loading Structural Columns
- Creating Structural

Receive the following when attending a course at Milestone :

- Internationally Recognised Autodesk Certificate
- Placement Support
- Free eBook
- Course Material

Exams and Certifications:

- Autodesk Certification
- MIT Certification

Who should attend

- Civil Engineering Students
- Civil Diploma Students
- Civil Draughtsman
- BE / BTech Civil Engineers

Targeted Job Roles

- Architect
- Surveyor
- Design Engineer
- CAD Technician
- Project Manager



Master Skills With Civil Engineering

TRAINING PRICE	COURSE DURATION	ONLINE / OFFLINE
Contact: +91 98198 57244 8454065555	32 Weeks (Regular / Weekend) 1& ½ Hour	Yes / Yes

Prerequisites

Basic Computer Skills

- Column Types
- Structural Column Tools and Options
- **Creating Openings in Structural Columns**
- About Structural Walls
- Working with Structural Walls
- Structural Wall Type Parameters
- Structural Wall Instance Parameters
- Continuous Footings and Pilasters
- Process of Modeling Structural Walls
- About Wall Pilasters
- Creating Wall Openings
- **Creating Frames**
- Adding Floor Framing
- About Floor Framing
- About Beams
- Beam Properties
- Adding Openings in a Beam
- Working with Beams and Beam Systems
- About Beams and Beam Systems
- Beam System Properties
- Methods of Creating Sloped Beams
- Process of Creating a 3D Beam Systems
- Working with Structural Steel Frames
- About Structural Steel Frames
- Setting Steel Frame Symbols in Plan View
- Process of Adding Bracing Members
- Editing Braces
- Working with Concrete Beams

- About Concrete Beams
- Options to Edit Concrete Beam Joins
- Vertical Justification of Beams
- **Creating Floors and Roofs**
- Adding Floors
- About Floor Elements
- Process of Adding a Floor Element
- Creating Sloped Floors
- Creating Shaft Openings in Floors
- Creating Roofs and Adding Structural Framing
- About Roofs
- Process of Sketching Roofs
- **Creating Foundations**
- Adding Foundations
- About Foundations
- Creating Stepped Walls and Foundations
- **Additional Building Components**
- Creating Stairs
- About Stairs and Railings
- Creating Stairs
- Creating Ramps
- About Ramps
- Process of Creating Ramps
- **Creating Plan Annotations and Schedules**
- Adding Dimensions
- About Temporary Dimensions
- About Permanent Dimensions
- About Spot Dimension Symbols
- Working with Text and Tags
- About Text

- About Tags
- Process of Adding Tags
- Setting Text Placement Parameters
- Creating Legends
- About Legends
- About Schedules
- Working with Schedules
- **Creating Detailing**
- Working with Detail Views
- Adding Detail Views
- Process of Saving and Reusing a Detail View
- Adding Concrete Reinforcement
- Adding 3D Reinforcement
- Adding Detail Components
- Working with Drafting Views
- About Drafting Views
- Process of Creating and Reusing Drafting Views
- Working with CAD Details
- Options for Importing and Editing CAD Files
- **Creating Construction Documentation**
- Working with Sheets and Title blocks
- About Sheets and Title blocks
- About Revision Tracking
- Process of Creating Sheets by using Customized Title blocks
- Creating Revision Clouds
- Printing Sheets
- Print Settings
- Print Setup Settings
- Exporting Content to CAD Formats
- Managing Exporting Content

Receive the following when attending a course at Milestone :

- **Internationally Recognised Autodesk Certificate**
- **Placement Support**
- **Free eBook**
- **Course Material**

Exams and Certifications:

- **Autodesk Certification**
- **MIT Certification**

Who should attend

- **Civil Engineering Students**
- **Civil Diploma Students**
- **Civil Draughtsman**
- **BE / BTech Civil Engineers**

Targeted Job Roles

- **Architect**
- **Surveyor**
- **Design Engineer**
- **CAD Technician**
- **Project Manager**

Master Skills With Civil Engineering

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Contact: +91 98198 57244 8454065555	32 Weeks (Regular / Weekend) 1& ½ Hour	Yes / Yes

Prerequisites

Basic Computer Skills

- Process of Exporting Views to CAD Formats
- **Steel**
 - Managing Connection Between Steel Members
 - Adding Custom Fabrication Elements
 - Modifying Structural Members
 - Adding Parametric Cuts
- **Precast**
 - Segmentation of Precast Family Components
 - Defining Connections
 - Adding Reinforcement
 - Shop Drawing
 - Exporting model for CAM
- **Project Work**
 - Real-Life Drafting Projects
 - Capstone Project
- **3. Staad Pro Software**
 - **Introduction**
 - About STAAD.Pro and Applications
 - Application in Industry vs University comparison
 - Traditional Structural Analysis vs. MODERN approach
 - By HAND Vs. By computer
 - Finite Element Method Introduction
 - FEM Solutions
 - **STAAD Module Orientation**
 - Analysis capability and International Code support
 - 3rd part integration support
 - GUI Quick overview
 - **Model Generation Techniques**
 - Command File editor info
 - Built-in info order
 - Finite Element modeling
 - Load types and Generation
 - Model Verifications
 - Adv. Analysis capability
 - Result verification and post processing
 - Design code-RCC and Steel
 - Solving Method
 - Solving Approach
 - How to start STAAD.Pro V8i
 - Navigating STAAD.Pro V8i GUI
 - Configuration & Settings
 - Unit and Code configuration
 - Back Up Manager
 - Opening and Saving Projects
 - Overview of Structure
 - Status Bar details, Hierarchy Managing
 - Understand the different component of GUI
 - **Geometry Operations**
 - Renumbering
 - Importing CAD Files
 - Details About Grid systems in STAAD.
 - Types of Structure and Methods
 - Types of Element
 - Mode of Structure
 - Creating Geometry for Structure
 - How to create Beam /Column & Curved Beams
 - Structure Wizard
 - Structure Wizard Model and STAAD Transfer
 - **Modifying Geometry for Structure Copy /CopyLink/Rotate/Mirror etc)**
 - Add Mid points, Cut Section
 - Add Perpendicular intersection beam
 - Stretch /Split BEAMS
 - Hot spots, Fill Plates
 - Different Viewing Controls for Structure Geometry
 - Boundary Conditions & Properties
 - Properties of beam/column
 - Display properties, Rendering
 - Steel profiles
 - Material + CROSS SECTION
 - Beam and column end offset + adv. options
 - Use cursor to assign and selection, View assign
 - Types of support
 - Material Assignment
 - Material creation
 - **Load Types**
 - Load case
 - Defining Load case
 - Dead Load defining
 - Imposed Load defining (LIVE)
 - Point Load, UDL Load, Floor Load, Area Load
 - Wind Load – IS Code based
 - Seismic Load – IS Code based
 - Load combinations, Auto LOAD Combinations
 - Envelopes
 - Projects on Buckling

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- **Civil Engineering Students**
- **Civil Diploma Students**
- **Civil Draughtsman**
- **BE / BTech Civil Engineers**

Targeted Job Roles

- **Architect**
- **Surveyor**
- **Design Engineer**
- **CAD Technician**
- **Project Manager**

Master Skills With Civil Engineering

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Prerequisites

Basic Computer Skills

• Post-Processing

- Analysis Outline, Analysis/Print
- Beam2D
- Post Processing
- Internal Hinge, Truss2D
- Inclined Support & Support Settlement

• Analysis

- P-Delta Analysis
- Bracing with Truss or Tension Members
- Building with Flat Slab & Shear
- Transfer Force for Connection Design
- RCC Design & Analysis
- RCC Design and Analysis
- Loads and Repeat Load case for RCC
- IS RCC Codes and STAAD.-Pro
- Slab Design and Analysis
- IS CODE Check
- Modal Analysis
- What is Modal Frequency or fundamental Frequency
- Necessary for conducting Modal Analysis
- Parameters need to check after Analysis

• 4. Etabs

- Learn the core principles of civil design through hands-on training with:

• Introduction to ETABS

- Overview of ETABS
- Getting Help
- Templates and Defaults
- Graphical User Interface
- ETABS Screen Menus
- Units System
- Coordinate Systems

• Modelling In ETABS

- Starting a New Model
- New Model Quick Templates
- Grid System Data
- Add Structural Objects
- Edit Stories and Grid Systems
- Add Grid at Selected Joints
- Grid Options
- Save the Model

• Editing Properties

- Replicate
- Extrude
- Extrude Joints to Frames
- Extrude Frame to Shells
- Merge Joints
- Align Joints/Frames/Edges
- Move Joints/Frames/Shells
- Edit Frames
- Edit Shells
- Divide shell
- Merge shell
- Chamfer shell
- Expand/ shrink shell
- Show selected object only (view)
- Invert visibility of objects
- Refresh view

• Defining Properties

- Material Properties
- Load Patterns
- Shell Uniform Load Sets
- Load Combinations

• Structural Objects

- Draw Grids
- Draw Joint Object
- Draw Dimension Lines
- Draw Joint Object
- Draw Beam/-Column/Brace Object
- Draw Floor/Wall Objects
- Draw Reference Points

- Draw Reference Planes
- Draw Wall Stacks
- Snap Option

Selection of Properties

- Select
- Deselect
- Invert Selection
- Set building view limit.

Assign Joint

- Frame
- Shell
- Joint Loads
- Frame Loads
- Shell Loads

Design

- Steel Frame Design
- Concrete Frame Design
- Composite Column Design
- Shear Wall Design

Detailing

- Detailing Process
- Edit Views
- Create and Manage Drawing Sheets

Display & Generate Result

- Obtain Basic Graphical Display
- Display Units
- Load Assign
- Graphical Displays using Model Explorer
- Tabular Display of Results
- Summary Report
- Export Results

Projects

- Capstone Projects / Live Projects

Receive the following when attending a course at Milestone :

- Internationally Recognised Autodesk Certificate
- Placement Support
- Free eBook
- Course Material

Exams and Certifications:

- Autodesk Certification
- MIT Certification

Who should attend

- Civil Engineering Students
- Civil Diploma Students
- Civil Draughtsman
- BE / BTech Civil Engineers

Targeted Job Roles

- Architect
- Surveyor
- Design Engineer
- CAD Technician
- Project Manager

Master Diploma in Interior Design Course

Design Functional and Beautiful Interiors with a Master Diploma in Interior Design Gain the skills to design interiors that blend aesthetics, functionality, and sustainability. Learn to create spaces that are both visually appealing and practical, making a positive impact on your clients' lives.

Overview

This diploma provides a deep understanding of interior design, covering everything from client needs analysis to material selection and ecological design practices. You'll learn to balance aesthetics with practicality in creating spaces for residential and commercial projects.



Why Choose This Course?

This course focuses on creativity and practicality and gives you the skills to succeed as an interior designer, whether designing homes, offices, or retail spaces.



100% Placement Assistance Program

Job placement assistance readiness.



Real time projects

Receive continuous feedback to enhance your learning.



Continuous Feedback

Receive continuous feedback to enhance your learning.

Master Diploma in Interior Design Course

TRAINING PRICE	COURSE DURATION	ONLINE / OFFLINE
Contact: +91 98198 57244 8454065555	32 Weeks (Regular / Weekend) 1 & ½ Hour	Yes / Yes

Prerequisites

Basic Computer Skills

Topics Covered

• Introduction to Interior Design Principles

- Learn the core principles of interior design through hands-on training with:

- **Civil AutoCAD Software**
- **3Ds Max Software**
- **Vray Software**
- **Sketchup Software**
- **Photoshop Software (Free)**

• 1. AutoCAD Civil Software

• Introduction to AutoCAD Civil

- Overview and Interface
- Basic Commands and Tools
- Introduction to CAD
- 2D Fundamentals
- **Site Design and Analysis**
- Preparation of sketches: Lines, Circles, Rectangular etc
- Dimension Style
- Layer Overview, modifying layer attributes
- Editing & modification of sketches
- Scaling objects, views
- Duplication using mirror, copy, pattern etc
- Dimensioning techniques
- Creating & editing blocks
- Hatch, trim, extend, tables etc
- **Isometric Drawing**
- Concept
- Snap
- Drawing Isometric objects
- Dimensioning
- **AutoCAD 3D**

- Introduction to 3D
- Extruding and revolving objects
- UCS concept and its use
- Boolean using union, subtract and intersect
- Standard views

• Advance Features

- Photo rendering
- Printing Documents
- Templates Insertion
- Motion path Animation

• Project Work

- Real-Life Projects
- Capstone Project

• 2. 3ds Max Software

• Standard Primitives

- Introduction to 3D Max
- Uses in various Engineering sectors
- Four ports and configuration
- Animation option - Time line & time slider
- Unit setup
- **Extended Primitives**
- Application of tools in main toolbar
- Link, Unlink, Selection tools, Operating tools, Mirror & Snaps
- Navigation panel, Media panel, Grid and snap setup
- Selection sets, Align, Layers, Render
- Material editor
- Create, Modify, Hierarchy, Object Categories
- Tools - Array, Mirror
- Group menu, P Q R Axis, Family parameters

- **Basic Models**
- Parameter modifiers
- Limit effects with Gizmo center
- Creating a 3D object by using AEC extended objects
- **2D & 3D Boolean**
- Creating 2D sketches by using spline, line etc
- Creating 3D objects by using commands like extrude, lathe, loft Boolean
- Advanced Modeling
- Creating some architectural objects like sunshade, Block
- Front projections arcs by using parametric modifiers
- Creating 3D objects like door, windows, wall, railing, stairs etc
- Foliage & site impartment compound objects
- **Advanced Rendering**
- Standard lightning, Advanced lightning by using light parameters tools
- Basic texturing of 3D models by using texturing tool
- Creating particles, environmental effects in 3D models
- Animating camera, path camera by motion panel tools
- Animating the position, rotation & path of the camera Rendering
- **Animation**

Receive the following when attending a course at Milestone :

- **Placement Support**
- **Course Material**

Exams and Certifications:

- **Autodesk Certification**
- **MIT Certification**
- **Government Certificate Option**

Who should attend

- **Graduate from any stream.**
- **Interior Design Students**
- **Aspiring Interior Designers**
- **Design Professionals**

Targeted Job Roles

- **Interior Designer**
- **Space Planner**
- **Design Consultant**
- **Furniture Designer**



Master Diploma in Interior Design Course

TRAINING PRICE	COURSE DURATION	ONLINE / OFFLINE
Contact: +91 98198 57244 8454065555	32 Weeks (Regular / Weekend) 1& ½ Hour	Yes / Yes

Prerequisites

Basic Computer Skills

Topics Covered

- Frame to frame animation, Parametric animation
- Object animation, Walk through, creating video files
- **2. V-Ray Software**
- **Introduction to V-Ray**
- V-Ray Interface
- V-Ray Objects
- V-Ray
- Hardware Overview
- **Linear and Physical Workflow**
- LWF
- Gamma Adjustments
- Color Mapping
- **Lighting**
- Proper lighting Workflow
- Image Based Lighting HDR
- Daylight System
- Light Typologies and Uses
- Physically Accurate Lighting
- **V-Ray Physical Camera / VFB**
- Basics of Physical Cameras
- Exposure vs Shutter vs ISO
- Controls: DOF and Motion Blur
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- **In-depth Global Illumination**
- GI Engines Demystified
- Bounces: Primary/Secondary
- Brute Force
- Irradiance Map
- Light Cache
- **Image Sampling**
- Anti-aliasing Theory
- Fixed
- Adaptive DMC
- Adaptive Subdivision
- Color and Noise Threshold
- Filters
- **V-Ray Materials**
- Materials Physics
- Material Creation Workflow
- Material Optimization
- Complex Material Creation
- Bump Mapping, vs Normal Mapping vs V-Ray Displacement
- Advanced V-Ray Shaders and Real World Materials
- **V-Ray Render Elements**
- Using Render Elements
- Render Elements Math and Compositing
- Best Elements Used and Light Controls
- Managing and Saving Render Elements (8/16/32 Bit)
- **Rendering Techniques**
- Interior / Exterior Workflow
- Lighting / Materials
- Rendering Setup
- **Animations Techniques**
- Managing Animations
- Scenes with Static Objects
- Scenes with Moving Objects
- **Advanced Optical, Lighting and Environment Effects**
- DOF (In Camera and Post)
- Motion Blur (Camera and Post)
- Dispersion / Glare / Bloom
- Volume Light / Caustics
- V-Ray Environment Fog
- **V-Ray Hands on Examples**
- Exterior Rendering VXL
- Adv. Exterior Rendering
- Interior Day Rendering
- Interior Night Rendering
- Exterior Day and Night
- Interior Day and Night
- Exterior Dynamic Geom
- **Project Work**
- Real-Life Rendering Projects
- Capstone Project
- **4. SketchUp Software**
- **Introduction to SketchUp**
- Overview and Interface
- Basic Rendering Techniques
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- **3D Modeling Techniques**
- Views, Shapes
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- **Project Work**
- Real-Life Rendering Projects
- Capstone Project
- **5. Photoshop (Free) Software**

Receive the following when attending a course at Milestone :

- Placement Support
- Course Material

Exams and Certifications:

- Autodesk Certification
- MIT Certification
- Government Certificate Option

Who should attend

- Graduate from any stream.
- Interior Design Students
- Aspiring Interior Designers
- Design Professionals

Targeted Job Roles

- Interior Designer
- Space Planner
- Design Consultant
- Furniture Designer



Master Diploma in Interior Design Course

TRAINING PRICE	COURSE DURATION	ONLINE / OFFLINE
Contact: +91 98198 57244 8454065555	32 Weeks (Regular / Weekend) 1& ½ Hour	Yes / Yes

Prerequisites

Basic Computer Skills

- **Introduction to Photoshop Software**
 - Introduction
 - Image Size and Resolution
 - Photoshop Interface
 - Creating New File
 - Tool Box
 - Tool Option Bar
- **Working with Layers**
 - About Layer
 - Creating Layer Sets
 - Group Layers
 - Link and unlink Layers
 - Layer Style dialog box overview
- **Selection Tools**
 - About Selection Tools
 - Saving and loading selections
 - Deleting selections
- **About Color**
 - Color panel overview
 - About color modes and models
 - Applying colors
 - Color Boxes and Modes
 - Drawing and Editing
- **About drawing and painting**
 - Drawing shapes and paths
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 - Align and distribute user slices
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 - About Layer Clipping Mask
 - Create a Clipping Mask
 - Remove a Layer from Clipping Mask
 - Release Clipping Mask
- **Working with Layer Mask**
- **Operating Animation**
 - Animation panel overview
 - Frame animation workflow
 - Creating a Frame Based Animation
- **Final Project**
 - Real-World Design Challenge

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Master Diploma in Interior Design Course

TRAINING PRICE	COURSE DURATION	ONLINE / OFFLINE
Contact: +91 98198 57244 8454065555	32 Weeks (Regular / Weekend) 1 & ½ Hour	Yes / Yes

Prerequisites

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Topics Covered

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- **Vray Software**
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- Basic Commands and Tools
- Introduction to CAD
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- Layer Overview, modifying layer attributes
- Editing & modification of sketches
- Scaling objects, views
- Duplication using mirror, copy, pattern etc
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- Creating & editing blocks
- Hatch, trim, extend, tables etc

• Isometric Drawing

- Concept
- Snap
- Drawing Isometric objects
- Dimensioning

• AutoCAD 3D

- Introduction to 3D
- Extruding and revolving objects
- UCS concept and its use
- Boolean using union, subtract and intersect
- Standard views

• Advance Features

- Photo rendering
- Printing Documents
- Templates Insertion
- Motion path Animation

• Project Work

- Real-Life Projects
- Capstone Project

• 2. 3ds Max Software

• Standard Primitives

- Introduction to 3D Max
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- Four ports and configuration
- Animation option - Time line & time slider
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• Basic Models

- Parameter modifiers
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• Animation

Receive the following when attending a course at Milestone :

- **Placement Support**
- **Course Material**

Exams and Certifications:

- **Autodesk Certification**
- **MIT Certification**
- **Government Certificate Option**

Who should attend

- **Graduate from any stream.**
- **Interior Design Students**
- **Aspiring Interior Designers**
- **Design Professionals**

Targeted Job Roles

- **Interior Designer**
- **Space Planner**
- **Design Consultant**
- **Furniture Designer**



Master Diploma in Interior Design Course

TRAINING PRICE	COURSE DURATION	ONLINE / OFFLINE
Contact: +91 98198 57244 8454065555	32 Weeks (Regular / Weekend) 1& ½ Hour	Yes / Yes

Prerequisites

Basic Computer Skills

Topics Covered

- Frame to frame animation, Parametric animation
- Object animation, Walk through, creating video files
-
- **2. V-Ray Software**
-
- **Introduction to V-Ray**
- V-Ray Interface
- V-Ray Objects
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- Hardware Overview
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- **Linear and Physical Workflow**
- LWF
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- **Lighting**
- Proper lighting Workflow
- Image Based Lighting HDR
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- Basics of Physical Cameras
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- Real-Life Rendering Projects
- Capstone Project
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- **4. SketchUp Software**
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- Import Plan
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- Insert Component
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- **Visualization and Presentation**
- Material, Edit Material
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- Add scene
- Rendering
- Animation
-
- **Advanced Features**
- Importing and Exporting Models
- Integrating Plugins and Extensions
-
- **Project Work**
- Real-Life Rendering Projects
- Capstone Project
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- **5. Photoshop (Free) Software**

Receive the following when attending a course at Milestone :

- Placement Support
- Course Material

Exams and Certifications:

- Autodesk Certification
- MIT Certification
- Government Certificate Option

Who should attend

- Graduate from any stream.
- Interior Design Students
- Aspiring Interior Designers
- Design Professionals

Targeted Job Roles

- Interior Designer
- Space Planner
- Design Consultant
- Furniture Designer



Master Diploma in Interior Design Course

TRAINING PRICE	COURSE DURATION	ONLINE / OFFLINE
Contact: +91 98198 57244 8454065555	32 Weeks (Regular / Weekend) 1& ½ Hour	Yes / Yes

Prerequisites

Basic Computer Skills

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 - Release Clipping Mask
 - Working with Layer Mask
- **Operating Animation**
 - Animation panel overview
 - Frame animation workflow
 - Creating a Frame Based Animation
- **Final Project**
 - Real-World Design Challenge

Receive the following when attending a course at Milestone :

- Placement Support
- Course Material

Exams and Certifications:

- Autodesk Certification
- MIT Certification
- Government Certificate Option

Who should attend

- Graduate from any stream.
- Interior Design Students
- Aspiring Interior Designers
- Design Professionals

Targeted Job Roles

- Interior Designer
- Space Planner
- Design Consultant
- Furniture Designer



Master diploma in Architectural Design

This Master Diploma in Architectural Design course training is a Building Information Modeling (BIM) solution for Architects & Project Managers. It provides integrated Design, Visualize and Documentation tools to support building systems projects right from concept through construction documents. This course gives complete solutions to Architects who want to build a career in BIM. This course covers Building Information Modeling (BIM) and Computer-Aided Design (CAD) corresponding to current industry based practices by offering various methods & Tools required to become a BIM Professional in the AEC industry.

Overview

The Architectural Design Course covers Building Information Modeling (BIM) which is a digital approach to architectural design that enhances collaboration, efficiency, and accuracy throughout a project's lifecycle. Here's an overview of its key components.



Why Choose This Course?

Master the tools and techniques essential to architectural drafting with the Architectural Design Course, ensuring you can create high-quality designs that meet aesthetic and functional requirements.



100% Placement Assistance Program

Job placement assistance readiness.



Real time projects

Receive continuous feedback to enhance your learning.



Continuous Feedback

Receive continuous feedback to enhance your learning.

Master diploma in Architectural Design

TRAINING PRICE

Contact: +91 98198 57244 | 8454065555

COURSE DURATION

32 Weeks (Regular / Weekend) 1 & ½ Hour

ONLINE / OFFLINE

Yes / Yes

Prerequisites

Basic Computer Skills

Topics Covered

1. Understand fundamental architectural design principles

- Introduction to architectural design
- Importance & fundamental architectural design principles

2. AutoCAD

Introduction to AutoCAD Architectural

- Overview and Interface
- Basic Commands and Tools
- Introduction to CAD
- 2D Fundamentals

Site Design and Analysis

- Preparation of sketches: Lines, Circles, Rectangular etc
- Dimension Style
- Layer Overview, modifying layer attributes
- Editing & modification of sketches
- Scaling objects, views
- Duplication using mirror, copy, pattern etc
- Dimensioning techniques
- Creating & editing blocks
- Hatch, trim, extend, tables etc

Isometric Drawing

- Concept
- Snap
- Drawing Isometric objects
- Dimensioning

AutoCAD 3D

- Introduction to 3D
- Extruding and revolving

- objects
- UCS concept and its use
- Boolean using union, subtract and intersect
- Standard views

Advance Features

- Photo rendering
- Printing Documents
- Templates Insertion
- Motion path Animation

Project Work

- Real-Life Drafting Projects
- Capstone Project

3. Revit Architecture Software

Building Information Modeling

- Building Information Modeling for Architecture Design
- About Building Information Modeling
- About Bidirectional Associativity

Revit Architecture Basics

- Exploring the User Interface
- Working with Revit Elements and Families
- Starting a Project

Creating and Managing Models

- Creating and Modifying Levels
- Creating and Modifying Grids
- Creating a Basic Floor Plan
- Adding and Modifying Walls
- Working with Compound Walls
- Using Editing and Modification Tools

Loading Additional Building Components

Viewing the Building Model

Using Dimensions and Constraints

Developing the Building Model

Detailing and Drafting

Construction Documentation

Presenting the Building Model

Advanced Features

Visualization and Presentation

Project Work

4. Navisworks Software

Introduction to Navisworks Software

- Getting Started with Navisworks
- Model Navigation & View
- Model Reviews
- Model adjustments
- Adding comments & Redlines
- Group & Sort

Effective Clash Detection

Extra add-ons

Project Work

5. Recap

Introduction to Autodesk Recap and its interface

Importing and processing point cloud data

Converting scans into 3D models for BIM workflows

Receive the following when attending a course at Milestone :

- Placement Support
- Free eBook
- Course Material

Exams and Certifications:

- MIT Certification
- Autodesk Certification
- Government-Recognized Certification

Who should attend

- B.Arch Students
- B.Tech / BE Students
- Diploma in Civil Engineering Students
- Architecture Professionals

Targeted Job Roles

- Architect
- Architectural Designer
- BIM Architect
- Architectural Drafter





Master diploma in Architectural Design

TRAINING PRICE	COURSE DURATION	ONLINE / OFFLINE
Contact: +91 98198 57244 8454065555	32 Weeks (Regular / Weekend) 1 & ½ Hour	Yes / Yes

Prerequisites

Basic Computer Skills

Topics Covered

6. BIM 360 Docs

Overview of BIM 360 Docs and cloud collaboration

Document management and version control

Sharing, reviewing, and marking up construction documents

Project Work

- Capstone Projects & Internship

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Exams and Certifications:

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Who should attend

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Targeted Job Roles

- Architect
- Architectural Designer
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MILESTONE

INSTITUTE OF TECHNOLOGY

Upskill Reskill Stand Out

REG. OFFICE THANE

201, Siddhashram CHS, Gokhale Rd, opp. Hanuman Temple, next to Ishan Arcade, Thane (W), 400602
Contact: +91 9819857244 | +91 8454065555
Email: training@milestone.ac.in

ANDHERI

16, Vivina 2B, NADCO Shopping center,
Opposite Station, Andheri West - 400058.
Tel : +91 9702123388 | +91 9322842025
Email: andheri@milestone.ac.in

BORIVALI

201, 2nd floor, Mudra Society, Chandavarkar Rd,
opp. Dattani Trade Centre, behind Byke hotel,
Borivali West, Mumbai, Maharashtra 400092.
Phone: +91 9892694995 | +91 91378 75152
Email: borivali@milestone.ac.in

GHATKOPAR

201 Rajgor Empire, khot Lane, Opp Bata showroom. Ghatkopar west. Mumbai - 400086
Phone: +91 8369919983 | +91 8369984022
Email: ghatkopar@milestone.ac.in

RATNAGIRI

309 B wing, Navkar Plaza, Maruti mandir,
Ratnagiri, Maharashtra 415612
Phone: +91 7666464099 | +91 9029542464
Email: ratnagiri@milestone.ac.in