



MILESTONE

INSTITUTE OF TECHNOLOGY

Upskill Reskill Stand Out



YEARS OF
EXCELLENCE

31000+

Enrolled Students

17000+

Placed Students

150+

Company Tie-ups

100+

Job Oriented Courses

Master the Skills with
**Civil Engineering
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 22+ years we are in Training and Engineering Design Services, consistently upholding our commitment to excellence.
- Backed by our own Engineering Design Company, Milestone PLM Solutions Pvt. Ltd. Personalize Training.
- Our highly skilled faculty deliver top-notch professional knowledge and offer personalised training to each student.
- Every student receives personalized guidance and individual attention to strengthen concepts, improve practical skills, and achieve better learning outcomes.
- We employ specialised visual teaching methods to accelerate your learning. All courses feature instruction using the latest software versions.

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.



Civil BIM

Explore our specialised Civil Engineering courses to equip future industry designers and planners with the essential skills to excel in Civil Engineering projects. Learn how to create detailed and accurate Structural BIM models that enhance project planning, execution and management. Whether you're looking to boost your skills or start a new career, our Civil Engineering Software courses offer in-depth training to help you become a leading AEC professional.

Civil BIM Software

Civil BIM (Building Information Modeling) involves creating and managing digital representations of the physical civil engineering projects and functional characteristics of civil, which are crucial for designing and managing infrastructure projects like roads, bridges, Buildings and utilities. Enrolling in Civil Engineering Courses that cover Civil BIM can help professionals improve project outcomes, optimise resource management, and ensure better stakeholder coordination.



Live Projects

Work on US based live projects and expand your portfolio international BIM standards.



Autodesk Certification

Internationally valid Autodesk certification to flaunt your skillset globally.



100% Placement

We assist you in finding the right job opportunities.

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

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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

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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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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

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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