



AUTOCAD BROCHURE



Ministry of MSME, Govt. of India



About Glowlogics

Glowlogics is a **government-verified MSME and Startup India-recognized company offering ISO-certified internships. In partnership with Techfest, IIT Bombay**, we are committed to fostering innovation and skill development, providing practical, industry-relevant education

Unlock Your Potential with AutoCAD

AutoCAD is a leading computer-aided design (CAD) software used by engineers, architects, and designers across industries to create precise 2D and 3D drawings. Mastering AutoCAD gives you a competitive edge in various fields such as architecture, construction, product design, and mechanical engineering. Glowlogics AutoCAD Certification Program is designed to provide hands-on experience and the skills required to become proficient in this powerful tool.

Why Choose Glowlogics

Top-Notch Training: Learn from industry experts.

Flexible Learning Modes: **Self-paced, live, and blended.**

Career Support: Job Assistance programs, resume building, and interview preparation.

Global Recognition: Courses aligned with industry certification standards.

Course Content

Module 1: AutoCAD Basics & Interface (2 Hours)

- Introduction to AutoCAD & its industry relevance
- Navigating the interface, workspace, and UI customization
- AutoCAD coordinate system and drawing settings
- Fundamental drawing commands (line, circle, rectangle, arc)

Module 2: 2D Drawing & Modifications (5 Hours)

- Drawing techniques: polyline, spline, fillet, chamfer
- Modify tools: trim, extend, offset, rotate, mirror, scale
- Object snaps, layers, line types, colors, and properties
- Annotation: text, dimensioning, leaders, and hatching

Module 3: Advanced 2D Techniques (3 Hours)

- Blocks and dynamic blocks with attributes
- External references (Xrefs) and group usage
- Parametric constraints for design precision
- Template creation and design reuse techniques

Module 4: 3D Modeling & Visualization (5 Hours)

- Introduction to 3D modeling in AutoCAD
- Creating and editing 3D solids, surfaces, and meshes
- Visualizing models using UCS, views, and visual styles
- Materials, rendering basics, and lighting setup

Module 5: Layouts, Plotting & Output (2 Hours)

- Model space vs. paper space
- Creating viewports, title blocks, and layouts
- Plotting/printing configurations and scale setup
- Exporting to PDF/DWG/DXF

Module 6: Industry Applications (3 Hours)

- **Architecture:** Floor plans, sections, and elevation drawings
- **Mechanical:** Machine components, assemblies, isometric views
- **Electrical:** Circuit layouts, symbols, and panel diagrams
- **Civil:** Site plans, contour mapping, and infrastructure layouts

Module 7: MATLAB Essentials for Design Engineers (5 Hours)

- **Introduction to MATLAB** and its GUI
- Basic syntax, variables, and scripts
- Working with vectors, matrices, and functions
- Plotting 2D/3D graphs and basic signal processing
- Simple AutoCAD data import/export using MATLAB (conceptual overview)

Sample Projects

These are sample projects only. Unique capstone projects will be discussed in the live class

In the Capstone Project, students will be required to design and present a fully detailed 2D or 3D model based on industry-specific guidelines. This project will showcase their skills in drafting, modeling, and visualization, and will be a valuable addition to their professional portfolio.

Career Opportunities

Upon completing the AutoCAD Certification Program, students will be equipped for roles such as:

- CAD Technician
- Design Engineer
- Architectural Drafter
- Mechanical Designer
- Civil Draftsperson

Certificates





Get Started Today!

Contact Us:

Ready to take your career to the next level?

Contact us to learn more about our courses, flexible payment plans, and how we can help you achieve your career goals.

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