

GradTech

Autodesk AutoCAD 3D



Asia's First EdTech
Platform for Core
Engineers

Foundational Track

Module 1: Introduction to AutoCAD

- Introduction to the course
- Understanding and navigating in 3D
- Basic dimensions and calculation
- Using view control and view cube
- Using visual styles
- Working with model space viewports

Module 2: 3D solid modeling

- Creating Solid primitives
- Extrude command
- Presspull command
- Revolve command
- Sweep command
- Loft Command

Module 3: Solid Editing

- Boolean Operations Fillet and Chamfer edge Shell Command Slice
- Command Interfere command
- Imprint, extract edges and Copy edges Extrude, Taper and Move
- Face Copy, Offset, Delete and color
- Face 3D mirror command 3D array command Convert to surface, solid and thicken command
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Module 4: Visualising solids

- Understanding User coordinate system (UCS)
- Move, rotate and Scale object using gizmo
- Visualizing solid with sectional planes
- Creating 2D/3D Blocks with generate section Using flatshot
- Creating 2D layout views from 3D drawing
- Creating detail and sectional view
- Annotating layout views

Module 5: Mesh modeling

- Understanding Mesh and its parts
- Creating mesh primitives and mesh surfaces
- Making a 3D sofa with mesh modeling
- Understanding Mesh editing tools

Module 6: Surface modelling

- Making surface using Extrude, Revolve, Sweep
 - Loft Planar and Network command
 - Surface trim, Untrim & Extend command
 - Patch and Fillet tool Sculpt command
 - Offset and Surface Blend tool
- Working with NURBS Surface

Module 7: Rendering and presentation

- Applying materials to 3D solids
- Adding materials with Opacity map and Texture map
- Customizing material properties
- Placing Cameras and making views
- Adding interior Lights and making quick Rendering
- Adding Sun, Geolocation, date and time
- Adding environment presets and Sky background
- Creating and saving renderings as image file
- Making animated walk-through video

Project and tools

- 3D Fan Blade
- M10 Slotted Nut
- Spur Gear
- DNA Strand
- Helical Spring
- Bolt with Diamond Knurling

Ongoing real industry project discussion with industry experts

- Project discussion with expert
- Industry expectations from freshers
- Required skills as per industry need
- Networking and some insights
- Growth and development
- Expectations and reality

Interview preparation

- Aptitude and English
- Corporate ethics and etiquette
- Formal mail practice
- Group discussion
- How to handle interview questions
- Salary negotiation skills
- LinkedIn networking
- Mock interviews

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