

AutoCAD 3D Syllabus

Total duration: 40 hours (Theory 20 Hours + Lab 20 Hours)

AutoCAD 3D Total Duration : 40 Hours	
Session	Topics
Session 1	Need of 3rd dimension
	The conventions of AutoCAD
	Co-ordinate systems in 3D
	Types of 3D Models
	Surface Modeling - Rulesurf, Tabsurf, Revsurf, Edgesurf
	Hide, Shade, Shademode
Session 2	Orthographic Views
	Surface Modeling - 3Dface, Edge, Pface, 3dPoly, 3dMesh, Planesurf, Vpoint, Ddvpoint, Plan, View Cubic, Vports
	Mini Project 9 - Surface Model
Session 3	Solid Primitives: Box, Wedge, Cylinder, Cone, Sphere, Torus, Pyramid
	Region, Extrude, Revolve, Union, Subtract
Session 4	Intersect, Interfere, Polysolid, Sweep, Helix, Loft, Press/Pull
	UCS, UCS icon, Dyncamic UCS, UCSman
	Mini Project 10 - Solid Model
Session 5	Mesh Primitives
	Working with Gizmos - Move, Rotate, Scale
	Sub-object Filters
	Smooth Object
	Refine Mesh, Facetres
	Add / Remove Crease
	Split Mesh Face
	Extrude Face
	Convert to Solid
	Convert to Surface
	Mini Project 1 - Mesh Model
Session 6	Fillet
	Chamfer
	3DArray
	Mirror3D
	Rotate3D
	3Drotate
	3Dalign
	Slice
	Section
	SectionPlane
	Livesection
	Sectionplanejog

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Session	Topics	
Session 7	Solidedit	
	Massprop	
	Solview	
	Soldraw	
	Solprof	
	Flatshot	
	3Dorbit	
	3Dcorbit	
	3Dforbit	
	Dview	
	Camera	
	3Dwalk	
	3Dfly	
	3ddistance	
	3dswivel	
	Mini Project 2 - Create a 3D assembly and generate various views	
Session 8	Using 3D Image Types	
	Render Settings palette	
	Understanding lighting principles	
	Using lights in Rendering	
	Pointlight	
	Spotlight	
	Distantlight	
	Lightlist	
	Render	
Session 9	Rpref	
	Geographiclocation	
	Sunproperties	
	Materials	
Session 10	Renerenvironment	
	Background Dialog box	
	Image	
	Image attach	
	Imageadjust	
	Imageclip	
	Imageframe	
	Imagequality	
	Transparency	
	Draworder	
	Export/Import	
	Project 3 -	
	Complete an Assembly drawing	
	Assign Materials, Lights	
	Generate Rendered images for Presentation	
Create various views using Flatshot for Production drawing		
Align the views in Layout		