RAP Technologies
The CAD Company

BricsCAD – BIM-Syllabus   Total Duration : 70hrs

BricsCAD - BIM course Curriculum	**Hrs.**
- Start Screens - USER INTERFACE - Starting a New Drawing/Opening an existing drawing - Setting up a drawing starting from scratch - Setting up a drawing using a Wizard - Using and creating a template file - Opening an existing drawing - Prompt Menu - Controlling the Prompt Menu - Screen layout - Pull-down menus - Screen icons Command line - status bar - Dialogue boxes - Working in 2D - Drawing Commands - Lines, Ray, Construction Line - Multiline and polylines - Rectangles - Arc, Circle and Ellipse - Additional Command Options - Polygon, Spline - Co-ordinate input methods (directive, absolute, relative and polar) - Hatching - Text (multi-line & single line) and Formatting Text Styles - The Quad - Drawing with the Quad - Displaying Properties with the Quad - Editing with the Quad - View Commands - Modify Commands - Erase,Trim,Move,Copy,Mirror,Offset,Fillet and Chamfer - Array,Extend,Stretch,Rotate,Break,Scale and Explode - Dimension Command - Drawing Settings and Aids - Layers - Load Linetypes - Match properties - World UCS and User-defined UCS - Drawing limits and units	10

• Blocks • Attributes	
▪ Practical	8

▪ OPTIONS, SETTINGS
    • Touring the Settings Dialog Box
    • Opening and Closing Nodes
    • Accessing and Understanding Values
    • Using Real-time Search
    • Exporting Settings
▪ PALETTES
    • Properties Panels
        Accessing and Moving BricsCAD Panels
    • Layers Panels
    • Sheet Sets
    • Mechanical Browser vs Parametrics Manager
    • Parts Library
    • Content Browser Panel
    • Structure Panel
▪ STATUS BAR & UI
    • Status Bars
    • Working Sets
    • Tips Widget
    • View Cubes
    • Selection Sets
    • Drawing Explorer
    • Unified Interface
    • 3D Modeling
    • Chapoo vs 360
    • Using Chapoo
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▪ Practical	2

▪ Customizing BricsCAD
Customization Capabilities
    • System Variables and Preferences
    • File Paths
  • Understanding BricsCAD's Customization Tree
    • How BricsCAD Customizes Menus
    • Tutorial: How to Add a Command to a Menu
    • Creating A New Menu Item in BricsCAD
    • About BricsCAD's Macro Metacharacters
    • About BricsCAD's Menu Design Conventions
    • Customizing Context Menus
    • Customizing Toolbars
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• Customizing Ribbon Tabs and Panels
• Customizing Keyboard Shortcuts
• Customizing Mouse Buttons & Double-clicks
• Double-Click Actions
• Customizing Tablet Buttons and Menus
• Customizing Quick Properties
• Customizing Workspaces and Quad
• Quad
• Customizing Aliases and Shell Commands
• Shell Commands
• Customizing Tools Palettes
▪ OTHER AREAS OF CUSTOMIZATION
   • eTransmit
   • Plot Styles
   • Plotter Manager	

▪ Practical	8

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▪ Working in 3D
  ▪ BRICSCAD DIRECT MODELING
    • Working with Direct Modeling
    • Accessing Direct Modeling Commands
    • Direct Modeling Tutorial
  ▪ WORKSPACES, 3D VIEWING, QUAD CURSOR, & 3D MOUSE
    • Accessing the Workspace Commands
    • View Rotation & UCS Face Commands
    • Accessing the 3D Viewing Commands
    • BricsCAD's Lookfrom
    • Accessing LookFrom Commands
    • Visual Styles and Rendering
    • Accessing Visual Styles Commands
    • Working with the QuaD Cursor
    • *BricsCAD Command Prefixes*
    • Accessing the Quad Command
    • Tips Bar
  ▪ 3D GEOMETRIC & 3D DIMENSIONAL CONSTRAINTS
    • Working with 3D Constraints
    • Accessing 3D Constraint Commands
  ▪ 3D DESIGN INTENT
    • Working with Design Intent	

- Accessing Design Intent Commands **3D BIM DESIGN** - How BIM Design Works - Accessing BIM Commands **MODELING AND DEFORMING 3D SURFACES** - Accessing Surfacing Commands **3D SECTIONS** - Working with Sections - Accessing the Commands **DRAWING VIEWS** - Generating Drawings from Models - Sections from Drawings - Details from Drawings - Section and Detail Styles - Accessing Generative Drawing Commands **3D COMPARE** **KEYBOARD SHORTCUTS FOR THE DRAWING AREA** **KEYBOARD SHORTCUTS FOR COMMAND BAR & TEXT WINDOW**	
Practical	15