

I YEAR II SEM

15AME05-ENGINEERING DRAWING THROUGH AUTOCAD LAB

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Course objective:

Student should be able to:

- apply all basics commands in AutoCAD
 - create produce 2D drawing
 - Use the functions and commands of AutoCAD software to create isometric and three-dimensional drawings and models.
1. Introduction to Autocad like Starting AutoCAD, AutoCAD's Screen Layout, Working with Commands, Saving Your Work and AutoCAD's Cartesian Workspace.
 2. Creating a Simple Drawing using Basic Drawing & Editing Commands like drawing a line, circle, pattern, rectangular, circles, Erasing Objects, Viewing Your Drawing and Undoing and Redoing Actions.
 3. Making Your Drawings More Precise using commands like Object Snap, Object Snap Tracking, Drawing with SNAP and GRID, Selecting Objects for Editing, Moving, Copying, Rotating, Scaling, and Mirroring objects.
 4. Drawing Organization and Information using Creating New Drawings With Templates, Layer State, Changing an Object's Layer, Getting Information From Your Drawing using Measuring Objects, Working with Properties Drawing Arcs, Drawing Polylines, Editing Polylines, Drawing Polygons and Drawing Ellipses.
 5. Creating More Complex Objects using Advanced Editing Commands and Inserting Blocks like Trimming and Extending, Stretching Objects, Creating Fillets and Chamfers, Offsetting Objects, Creating Arrays of Objects, Inserting Blocks from Tool Palettes, Inserting Blocks using Insert, Inserting Blocks with Design Center.
 6. Modeling of simple machine parts and components in 2D and 3D using auto CAD,
 7. Annotating Your Drawing using some additional features like Working with Annotations Adding Text in a Drawing, Modifying Multiline Text, Formatting Multiline Text, Hatching, Dimensioning Concepts, Adding Linear Dimensions, Adding Radial and Angular Dimensions, Editing Dimensions, Adding Notes to Your Drawing

Course outcomes

After completing this course, students will be able to:

- Navigate the interface comfortably
- Use the fundamental features and precision drafting tools in AutoCAD to develop accurate technical drawings.
- Present drawings in a detailed and visually impressive manner


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