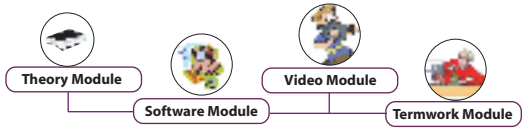
Learning Resources

Learning/Training Resources with Computer Aided Instructions in subject of

Engineering Drawing

SoftTech ENGINEERS PVT.LTD. Introduces, Global e-Learning System in Education & Training in the form of Learning Resources with Computer Aided Instructions



System Requirement:- IBM-PC Compatible with Window-OS, 128 MB RAM/Multimedia Kit

Theory module

Features : Theory, Figures, Photographs, Animations with controller, Highlighter tool, Note creation facility, Systematic page navigation, Printing facility.

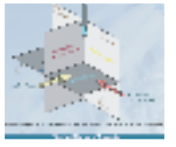
List of Topics

Introduction

List of Drawing Instruments, Drawing Board Details, General Suggestions, Working of Minidrafter, General Layout of Sheet, Types of Lines, Correct Methods for Drawing Lines, Drawing Lines By Using Set Squares, Lettering, Scales, Types of Scales, Dimensions.

Orthographic Projections

Principle Planes of Projection,
Principle Plane,
Auxiliary Plane,
Types of Section.



Isometric Projections

Isometric Axis, Lines, Planes, Isometric Scale, Isometric Graph, Drawing an Object Using Graph, Isometric Drawing, Sectional View.

Interpretation of Views

Reading of Views,
Missing View.

Engineering Curves and Loci of Points

Introduction, Ellipse, Parabola, Helix, Involute, Cycloid, Epicycloids, Hypocycloid, Arch Median Spiral, Introduction of loci of Points, Loci of Points, Crank Mechanism, Offset Crank Mechanism.

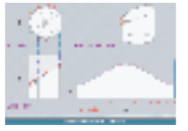
Projection of Points, Lines and Planes

Planes Perpendicular to both the Referance Planes, Projection on Vertical Plane, Projection on Horizontal Plane, Planes Perpendicular to One and Parallel to Other, Projection of Triangle, Pentagon, Equilateral, Projection of Circle, Projection of Inclined Lines, Projection of Pentagon, Projection of Square, Angle Between Plane, Distance of Point from Line, Inclined Solids, Projection of Lines, Projection of Point, Traces of Lines.

Projection of Solids

Projection of Cone, Projection of Cube, Projection of Cylinder, Projection of Pyramid, Projection of Tetrahedron, Frustome Solids.

Development of Solids



Development of surfaces,
Development of Cut Solids,
Pictorial Views of Solids from Development.

Intersection of Solids

Intersection between Two Cylinders, Intersection between Two Prisms, Intersection between Cone and Cylinder, Intersection between Cone and Prism, Intersection between Sphere and Cylinder, Intersection between Prism and Cylinder, Intersection between Cone and Plane, Intersection between Cylinder and Plane, Intersection between Prism and Plane, Intersection between Sphere and Plane.

Computer Aided Drafting

Introduction, Advantages of CAD, Organisation of a Computer, Cursor Control Devices, CAD Commands, Dimensioning, Editing.

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