GEC117: Technical Drawing (2 Units)

Department of Petroleum Engineering

Covenant University
1. GEC117
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Drawing Tools: Description, Uses and Maintenance, Line Work: Definition of points, lines and planes, Types of lines (Description, Uses), Dimensioning: Examples like arrow heads, solid dots and crosses; of straight lines, of circles, inadequate space dimensioning, Common Errors in line drawings, Lettering, Drawing Sheets Format, Border Lines and Title Block. Plane Geometry: Angles (Types and their construction), Triangles (Types and their construction), Quadrilaterals (Types and their construction), Polygons (Types and their construction), Circle and Its Parts, Inscribing and Circumscribing Circles, Tangents (Internal and External), Ellipse (Different Methods of construction), Plane and Diagonal Scales. Orthographic Projection: Basic Introduction: Description, Plan, Elevations, 1st Angle Projection, 3rd Angle Projection, Sectioning, Exercises.