

## **5. Geometrical curves**

- Introduction
- Conical sections
- Mathematical definitions of conical sections
- Construction of Ellipse
- Special curves
- Surfaces

## **6. Scale of a drawing**

- Introduction
- Uses of scales
- Types of scales
- Units used in measuring dimensions
- Representative Fraction ( R.F. )
- Necessary informations required for constructing scales
- Classifications of scales

## **7. Theory of projection**

- Introduction
- Theory of projection
- Types of projection
- Pictorial projection
- Orthographic projection
- Types of orthographic projection
- Making orthographic projection from isometric views
- Making isometric view from orthographic projection

## **8. Sectional Views**

- Introduction
- Elements of a sectional view
- Guidelines to draw hatching lines in sectional views
- Types of sectional views
- Conventional representation of various materials in section
- Conventional representation of various parts in section

## **9. Fasteners**

- Introduction
- Threads
- Forms of thread
- Bolts, nuts and washers
- Methods of representing threads in drawings
- Keys
- Proportion of keys