

## **SUBJECT NAME – TECHNICAL DRAWING I**

**SUBJECT CODE – 3316202**

### **FOCUS:**

To introduce the students to the fundamental techniques of architectural drawings by practice on drawing board by conventional method. Detailed understanding terminologies like plan, elevation, side elevation, drawing in first angle method and of projection by drawing plans, elevations and side elevations of plane, geometrical and complex objects. Measure drawing of the residential building.

### **CONTENTS:**

- Introduction to the basic principles of drawing, sign conventions (Line types, Materials, Graphical presentation on arch drawings, Landscape, furniture etc.)
- Practice in lettering, lettering used in architectural drawings, including different fonts.
- Introduction to plane geometry and exercises in lines and angles, construction of triangles, quadrilaterals and regular polygons.
- Construction of plane curves (ex: ellipse and ovals), arches- typical arch forms (ex: segmental, semicircular, three centered, four centered arches) and methods of drawing them.
- Orthographic projection (first angle projection). Principles of orthographic projection, projection of points, lines, planes, and solids.
- Three-dimensional representation, isometric and axonometric projection of solids.
- Measure drawing of the residential building, making proper plans elevations and sections of the same.

### **SUGGESTED BOOKS**

- IS 962 for Architectural graphics standards
- Engineering Drawing by N D Bhat
- Geometrical Drawing for Arts Students By IH Morris
- Engineering Drawing Vol I and II by KR Gopalkrishna
- A primer on computer aided engineering drawing by VTU
- Architectural Rendering the techniques of contemporary presentation by Albert o Halse