

0403201 Engineering Drawing

2 Credit hours, Prerequisite

The objective of this course is to enable students to comprehend and accomplish the engineering drawings. It covers an introduction to drawing instruments. The drawing of the basic two-dimensional shapes like lines circles tangents and polygons. Practicing lettering. Dimensioning like: linear, radial, and concentric. It also covers the orthogonal projection for basic objects like boxes, cylinders and spheres in addition to the projection of Boolean objects. Sections and material Representation, the 3D representation of objects such as: isometrics and axonometrics and Boolean objects. Extracting of orthogonal projections. It also includes the orthographic and auxiliary projection of points, lines, Planes and objects. The intersection of lines planes and objects. Solving Engineering problems using the orthogonal and auxiliary projection of lines planes basic objects and compound objects. The drawing of surface objects, parabolas and edge controlled surfaces. Developments of basic objects like boxes and cones.