

0403202 Engineering Drawing by Computer

(1 Credit hour, Prerequisite 0403201 Engineering Drawing)

The objective of the course is to enable students to use mesh-editing software programs to help them in the design process and accomplishment of engineering drawings. The course consists of introduction to Auto CAD interface. The drawing of the basic 2D objects. Boolean of 2D dimensional objects. Modifying the basic 2D objects. The enabling of using drawing aids like grid, snap and Osnap. The organization of drawings uses layers, line-type, color and templates. The advanced drawing concepts like blocks and hatch. Dimensioning like: Linear, radial, angular, and aligned dimensions. The drawing of basic 3D objects. The Boolean of 3D Objects. Lofting and revolving of 2D shapes to produce 3D objects. The extracting of projections and section directly from solid objects by the use of model space and paper space concepts. The solving and extracting of bearing, slope, location and other issues concerning engineering problems. The import and export from and to CAD