SolidWorks Course Syllabus

Ercan Bal
ercan5897@gmail.com

PROGRAM

#of lecture	Subjects to be covered	Homework
1	User Interface, menu, controls, shortcuts Principles of projection and views • Top, front, rear, isometric views • Understanding projection 2-D drawing techniques • Shaping lines, rectangular, circles etc. • Constraining and dimensioning • Parametric design	Homework 1
1	Introduction to 2D drawing • Trimming • Moving objects in a 2-D Drawing Intermediate 2-D drawing operations • Mirroring elements • Offsetting • Moving entities Patterns • Equations, Global Variables, and Dimensions • Excel design table	Homework 2
2	3-D techniques • Extruding • Revolving • Extruded cut • Revolved cut • Reference geometry	Homework 3
2-3	Intermediate 3D drawing techniques • Shell and draft • Fillet • 3D pattern Mirror • Mold Design	Homework 4

3	Layout techniques • Basic layout techniques • Creating technical drawing • Sectioning Measurement Techniques	Homework 5

3-4	Assembly • Introduction to mating entities • Mating Relations Kinematic assembly • Design library - Toolbox	Homework 6
4	Simulation on SolidWorks Fundamental Definitions of Strength of Materials • applying material • fixtures • loads and torques • meshing • analysing the data	Homework 7