

CAD (Computer-Aided Design)

using

AutoCAD



& PRO/E

August 15 - September 23, 2017

(Tuesday & Saturday)

6:00 pm to 8:00 pm (Tuesday) &

10:00 am to 12:00 pm (Saturday)

Training Investment: PKR 10,000/-

For Registrations

IBA Summer School

Institute of Business Administration

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COURSE OBJECTIVES

The objective of this course is to educate the participants about the essential guidelines required for creating 2D professional drawings and 3D solid models efficiently. This course is designed to provide participants with the fundamentals & practical experiences used in the design of various components. Participants would be exposed to the usage of CAD software packages i.e. AutoCAD and Pro/E throughout this course. Indeed, even participants with no past CAD experience can excel speedily through this course which is masterminded in an arrangement that is simple and straightforward.

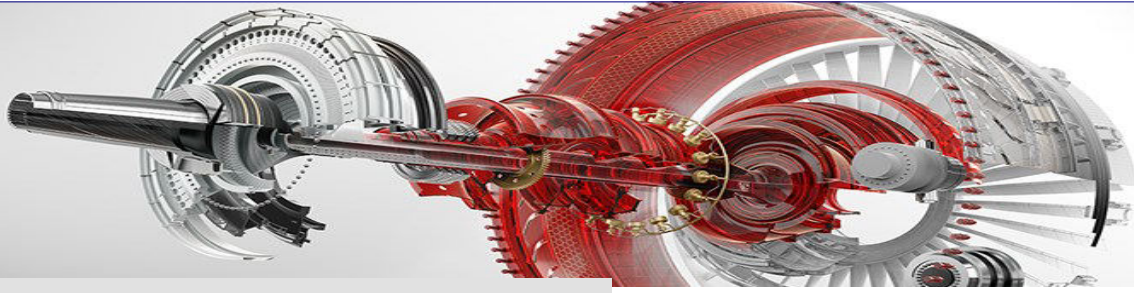
Main Topics to be covered in AutoCAD:

- ◆ AutoCAD Interface Overview
- ◆ Creating 2D Geometry (Line, Circle, Arc, Rectangle, Polygon, Spline, Ellipse)
- ◆ Modify Commands (Move, Copy, Rotate, Mirror, Offset, Scale, Array, Trim)
- ◆ Managing Object Properties with Layers
- ◆ Hatching for Sectional Views



Main Topics to be covered in Pro/E:

- ◆ Introduction to the Pro/E Basic Modeling Concepts
- ◆ Using the Pro/E Interface
- ◆ Creating Sketches for Features & using Sketcher Tools
- ◆ Creating Sketcher Geometry
- ◆ Creating Extrudes, Revolves and Ribs
- ◆ Selecting& Editing Geometry, Features and Models
- ◆ Creating Datum Features (Planes, Axes& Points)
- ◆ Creating Sweeps and Blends
- ◆ Creating Holes, Shells, and Draft
- ◆ Creating Rounds and Chamfers
- ◆ Group, Copy, and Mirror Tools
- ◆ Creating Patterns, Helical sweeps,
- ◆ Measuring & Inspecting Models and Changing Part Units



Learning Outcome:

- ◆ Use the key elements and accuracy drafting devices in AutoCAD to create detailed specialized drawings
- ◆ Present drawings in a comprehensive and perceivably fascinating way in AutoCAD
- ◆ Create very precise 2D drawings in AutoCAD in shorter duration
- ◆ Create 2D sketches of part features models using Pro/E
- ◆ Apply dimensions and constraints to profiles and turn into parametric features.
- ◆ Combine and edit features to create 3D solid parts in Pro/E

Who Should Attend?

- ◆ Inter students
- ◆ Diploma Holders (Mechanical, Electrical, Civil etc.)
- ◆ Undergraduate Students
- ◆ Engineers (Aeronautical, Naval, Mechanical, Electrical, Civil, etc.)
- ◆ Working Professionals and Technologists
- ◆ Piping and cabling professionals
- ◆ Architectural/ Industrial Designers and Interior Decorators
- ◆ CNC Machinists or any individual interested in learning how to create 2-dimensional drawings and 3D CAD models

Trainer's Profile:

Muhammad Adeel is currently working as a General Manager in SUPARCO. He has a successful 13-year track record of project management, designing and production engineering for a multitude of technical projects at SUPARCO (Pakistan Space & Upper Atmosphere Research Commission) – the national space agency of Pakistan. He has three international research publications and Master thesis published by LAMBERT Academic Publishing. He holds a Bachelor in Mechanical Engineering degree from NED UET and an M.S. in Aircraft Structure Design from Beijing University of Aeronautics and Astronautics (China). In addition to his technical qualification, he has also completed MBA degree from IBA. He has a vast experience of organizing professional trainings on AutoCAD (Computer Aided Design Software) for 2D & 3D modelling in various institutes.