

## Chapter 1: Getting Started with Basics- VBA

- ✓ Lesson 1: Getting Started & Understanding SolidWorks Architecture.
- ✓ Lesson 2: SolidWorks Macro.
- ✓ Lesson 3: Getting started with sketch. (VBA).
- ✓ Lesson 4: Getting Started with Modelling. (VBA).
- ✓ Lesson 5: Create User Form. (VBA).

## Chapter – 2 Getting Started with Basics- C#

- ✓ Lesson 6: Getting started with sketch (C# in Visual Studio Environment)
- ✓ Lesson 7: Getting Started with Modelling (C# in Visual Studio Environment)
- ✓ Lesson 8: Create User Form. (C#)

## Chapter – 3 Important API and Method.

- ✓ Lesson 9: API's & Methods.
  - Open Existing File.
  - Get Document Count.
  - Close All Documents.
  - Rebuild Document.
  - Quit SolidWorks.
  - Get Default Template.
  - Equation Manager.
  - Custom Property Manager.
- ✓ Lesson 10: Save File with File browser, UI Enhancement.
- ✓ Lesson 11: System Options and Document Properties.
- ✓ Lesson 12: Mass Properties: Mass, Volume, Density, Surface area, Principal moments of inertia, Moments of inertia.

## Chapter – 4 Transverse through Object.

- ✓ Lesson 12: Transverse through Feature Manager Tree.
  - Get First Feature.
  - Get Next Feature.
  - Set Material.
  - Set Colour.
  - Get Face Count.
  - Select Face.
  - Set Face Name.
  - Get Edge Count.

## Chapter – 5 Getting Started and Working with Assembly.

- ✓ Lesson 13: Assembly Concepts, Techniques and API's.
  - Get Assembly Template.
  - Add Component to Assembly.
  - Zoom to Fit.
  - Add Concentric Mate.
  - Add Distance Mate.
  - Add Coincident Mate.

## Chapter – 6 Getting Started and Working with Drawing.

- ✓ Lesson 14: Drawing Concepts, Techniques and API's.
  - Get Drawing Template.
  - Set & Get default Custom Template.
  - Add Models to Drawing.
  - Create Various Drawing Views.
  - Set scale.
- ✓ Lesson 15: Create Sectional Drawing Views.
- ✓ Lesson 16: Drawing Sheet Coordinates.
- ✓ Lesson 17: Drawing Views.
  - Create Detailed View.
  - Set Dimension for Selected Entity.
  - Set Position.
  - Auto Dimension.
  - Create Text/Note.
  - Insert General Table.
  - Adjust Table Size.
  - Fill Custom Values/Text in Table.
  - Export Drawing to PDF, DXF etc,

## Chapter – 7 Working with Excel.

- ✓ Lesson 18: Excel Workbook.
  - Connect Excel Work Book to SolidWorks.
  - Print All Components in Assembly to Excel Workbook.

## Chapter – 8 Production / Launch.

- ✓ Lesson 19: Production Release.
  - .EXE / Application.
  - .dll / Add-in.

## Chapter – 9 Demo Project with C# Concepts and Tricks.

- ✓ Lesson 20: Sketch, Coordinates, Model.
- ✓ Lesson 21: Assembly: Import Components, Positioning, Mate.
- ✓ Lesson 22: Drawing: Import Model, Create View, Add Note, Add Dimension, BOM.
- ✓ Lesson 23: Post-production.