

## Excel 2007 VBA

This course is designed for the Excel power users. It will help them to unleash the power of Excel through VBA programming and automate day-to-day tasks.

### Pre-Requisites

Experienced Excel users. Some macro programming/programming experience would be an advantage.

### Course Details

- 1. Basics of Excel 2007 – new features**
- 2. Basics of VBA and Macros**
- 3. Recording, Running, Deleting and Editing simple macros**
- 4. Getting to Know the VBA Development Environment**
  - a. The code design tools
  - b. Project Explorer
  - c. Object Browser and Help system
  - d. Code Window
  - e. IntelliSense
  - f. Properties Window
- 5. Understanding Event-driven programming.**
  - a. The role of events in Windows
  - b. Responding to events through event procedures
- 6. Using Objects, Properties, Methods**
- 7. Writing simple VBA code**
  - a. Using Events driven programming and OPM concepts
  - b. Printing simple messages using MsgBox
- 8. Variables**
  - a. Storing data in variables
  - b. Declaration of variables
  - c. Data types
  - d. The scope and lifetime of variables

**9. Creating Sub and Function procedures**

- a. Understanding the difference between sub and function procedures
- b. Passing arguments to procedures
- c. Creating custom functions
- d. Automated procedures

**10. Conditional branching and Loops**

- a. If...Then...Else
- b. Select...Case
- c. Do...Loop, While and Until
- d. For...Next and For Each

**11. Arrays and Constants****12. Building Intuitive User Interfaces**

- a. Using intrinsic dialogues, MsgBox and
- b. fating customized dialogues with UserForm ,Command buttons , Text boxes, List and Combo boxes, Option buttons, Check boxes, Labels

**13. Handling runtime errors**

- a. The On Error..GoTo structure
- b. Classifying errors with the Err object
- c. Continuing execution with Resume

**14. The debugging tools**

- a. Code stepping
- b. Immediate Window
- c. Breakpoints

**15. Implementing security**

- a. The dangers of macro viruses
- b. Macro security levels in Office
- c. Applying digital signatures to macros
- d. Password protecting your VBA code

**16. Working with the Ribbon and Shortcut Menus****17. Compatibility Issues**