

Excel 2007 VBA

COURSE CODE: MSVBA

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

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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. Creating 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

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