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Years of
ACADEMIC EXCELLENCE

Add: 1st Floor. Above Panjabi Rasoi Hotel, Opp. Maruti Show Room Near Inorbit Mall, Vimannagar Corner, Nagar Raod, Pune-14.

Ph.No. 020-30522895

Mobile: 8888228222

Web Site: www.smartbit.co.in

Email: smartbitpune@gmail.com

Advance Excel With Macro & VBA Programming

Technique for Creating Macro's & VBA- Level II

Chapter 1: What Is VBA?

Okay, So What Is VBA?
 What Can You Do with VBA
 Inserting a bunch of text
 Automating a task you perform frequently
 Automating repetitive operations
 Creating a custom command
 Creating a custom button
 Developing new worksheet functions
 Creating complete, macro-driven applications
 Creating custom add-ins for Excel
 Advantages and Disadvantages of VBA
 VBA advantages
 VBA disadvantages
 VBA in a Nutshell
 An Excursion into Versions
 TEAM LinG

Chapter 2: Jumping Right In

First Things First
 What You'll Be Doing
 Taking the First Steps
 Recording the Macro
 Testing the Macro
 Examining the Macro
 Modifying the Macro
 Saving Workbooks that Contain Macros
 Understanding Macro Security
 More about the NameAndTime Macro

Chapter 3: Working In the Visual Basic Editor

What Is the Visual Basic Editor?
 Activating the VBE

Chapter 9: Using VBA and Worksheet Functions

What Is a Function
 Using Built-in VBA Functions
 VBA function examples
 VBA functions that do more than return a value
 Discovering VBA functions
 Using Worksheet Functions in VBA
 Worksheet function examples
 Entering worksheet functions
 More about Using Worksheet Functions
 Using Custom Functions

Chapter 10: Controlling Program Flow and Making Decisions

Going with the Flow, Dude
 The GoTo Statement
 Decisions, decisions
 The If-Then structure
 The Select Case structure
 Knocking Your Code for a Loop
 For-Next loops
 Do-While loop
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 Looping through a Collection

Chapter 11: Automatic Procedures and Events

Preparing for the Big Event
 Are events useful?
 Programming event-handler procedures
 Where Does the VBA Code Go?
 Writing an Event-Handler Procedure

Chapter 16: UserForm Basics

Knowing When to Use a UserForm
 Creating UserForms: An Overview
 Working with UserForms
 Inserting a new UserForm
 Adding controls to a UserForm
 Changing properties for a UserForm control
 Viewing the UserForm Code window
 Displaying a UserForm
 Using information from a UserForm
 A UserForm Example
 Creating the UserForm
 Adding the CommandButtons
 Adding the OptionButtons
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 Creating a macro to display the dialog box
 Making the macro available
 Testing the macro

Chapter 17: Using UserForm Controls

Getting Started with Dialog Box Controls
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 Introducing control properties
 Dialog Box Controls: The Details
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 ComboBox control
 CommandButton control

Chapter 18: UserForm Techniques and Tricks

Understanding VBE components
 Working with the Project Explorer
 Adding a new VBA module
 Removing a VBA module
 Exporting and importing objects
 Working with a Code Window
 Minimizing and maximizing windows
 Creating a module
 Getting VBA code into a module
 Entering code directly
 Using the macro recorder
 Copying VBA code
 Customizing the VBA Environment
 Using the Editor tab
 Using the Editor Format tab
 Using the General tab
 Using the Docking tab
Chapter 4: Introducing the Excel Object Model

Excel Is an Object?
 Climbing the Object Hierarchy
 Wrapping Your Mind around Collections
 Referring to Objects

Chapter 5: VBA Sub and Function Procedures

Subs versus Functions
 Looking at Sub procedures
 Looking at Function procedures
 Naming Subs and Functions
 Executing Sub procedures
 Executing the Sub procedure directly
 Executing the procedure from the Macro dialog box
 Executing a macro by using a shortcut key
 Executing the procedure from a button or shape
 Executing the procedure from another procedure
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 Calling the function from a Sub procedure
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Chapter 6: Using the Excel Macro Recorder

Is It Live or Is It VBA
 Recording Basics
 Preparing to Record
 Relative or Absolute
 Recording in absolute mode
 Recording in relative mode
 What Gets Recorded?
 Recording Options
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 Store Macro In
 Description

Introductory Examples
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 The BeforeClose event for a workbook
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 Examples of Activation Events
 Activate and deactivate events in a sheet
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Chapter 12: Error-Handling Techniques

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 Handling Errors Another Way
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Chapter 13: Bug Extermination Techniques

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 Debugging Techniques
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 Using the MsgBox function
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Chapter 14: VBA Programming Examples

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 Determining the selection type
 Identifying a multiple selection
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 Trying out your dialog box
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Chapter 19: Accessing Your Macros

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Chapter 20: Creating Worksheet Functions and Living to Tell about It

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Chapter 7: Essential VBA Language Elements

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Chapter 21: Creating Excel Add-Ins

Okay . . . So What's an Add-In?
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 Protecting the VBA code
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 The Top Ten Questions about VBA

Chapter 23: (Almost) Ten Excel Resources

The VBA Help System
 Microsoft Product Support
 Internet Newsgroups
 Internet Web Sites
 Excel Blogs
 Google
 Local User Groups

For More Details Please Feel Free To Contact Rahul Sir on 8888228222.