



## **MACRO & VBA SCRIPTING COURSE CONTENTS**

**Duration: 12 Hrs**

**Pre-requisites: Prior Knowledge of Advance Excel is a must.**

### **Start with VBA Macro Programming:**

- **Introduction to VBA:** Detailed Introduction of VBA Macro Programming. Discussion on need of VBA Macros. Where to apply the VBA Macro. Benefit and limitation of VBA Macro.
- Type of VBA Macros.
- Display of Developers Tab and VB Editor.
- Macro Security.
- How to record a VBA Macro.
- Editing and Execution of recorded Macro.
- Various Key Board Short Cuts related to VBA Macros.
- **Working on Various Examples of Macro recorder.**
- **Introduction to the writing of basic VBA codes.**
- **Saving Off Your Macro.**
- **Introduction to the Personal Macros.**

### **VBA Macro Programming: Code Writing Concepts:**

- Defining Variables to VBA scripting.
- Discussion on different Types of Variables.
- Use of Local Window.
- Working on Programming, Understanding on VBA Language.
- Introduction of Message Box in VBA scripting.
- Introduction of Input Box In VBA scripting.
- Use of decision making statements in VBA scripting by using: If and Else conditions, And /OR conditions.

### **VBA Macro Programming: Working With Loops and Worksheet Ranges:**

- **Introduction of the Loops in VBA scripting.**
- **Use of Different type of loops like,** For & Next LOOP, For & Each Loop, Do & Until LOOP While and While and Wend Loop.
- **Working with Ranges:** Selecting, Coping and Pasting the Ranges and extract the data on same Worksheet level.
- Selecting, Coping and Pasting the Ranges and extract the data on different Worksheet level in the same Workbook.
- Selecting, Coping and Pasting the Ranges and extract the data on different Workbook Level.

### **VBA scripting: Writing of Formula in VBA and Error Handling:**

- Introduction of programming concepts for writing the Excel Formulas in to the Program.
- Writing of the basic formulas in to VBA.
- Writing worksheet functions in VBA.
- Error handling.



### VBA Macro Programming: Advanced VBA Functions:

- **User Define Function (UDF):** Detailed discussion on User Defined Function: What is User Defined Function, Use of User Defined Function and How to create any Function OR Formula which is not available in Excel and you want it to work for you by the help of Macro.
- **ADD-IN:** Discussion on ADD-IN: What is ADD-IN, Use of ADD-IN and How to create ADD-IN.
- **Working With VBA Events:** Discussion on VBA Events, What are Events, How and when to use the VBA Events.
- **VBA User Forms:** Discussion on VBA User Forms, What are User Forms, Why to create User Forms and How to create User Forms.

