

# **ADVANCE EXCEL VBA Syllabus**

What Excel VBA Can do ??

- a) Generate reports automatically
  - b) Automated chart creation
  - c) Perform data mining
  - d) Automating communication between Excel and Databases
  - e) Building Professional Dashboards, Charts & Visual Interfaces automatically
  - f) Perform analytical Tasks in seconds
  - g) Building Self-running programs
  - h) Visualizing data using Cells Drawing Shapes
  - i) Integrating data from a variety of Source
- 

---

## **1) VBA Overview**

- a) VBA Editor
- b) Basic Excel Terms
- c) Msg Box
- d) Input Box
- e) Comments

## **2) VBA Programming Variables**

- a) Variables( Data types numeric and non numeric )
- b) Variable Practice

- c) Add and Subtract
- d) Multiply and divide

### **3 ) Conditional Logic**

- a) Else
- b) Condition operators
- c) Logical operator
- d) Select case
- e) With and End with

### **4) String and String Functions**

- a) Text Strings in Excel VBA
- b) Changing Case
- c) Trim, Len, and Space
- d) Excel VBA Replace
- e) InStr, InStrRev, StrReverse
- f) The Left and Right Functions
- g) The Mid Function
- h) A String Exercise

### **5) Programming Loops**

- a) Excel VBA For Loops
- b) Excel VBA For Each Loops
- c) The Cells Property
- d) Excel VBA Do Loops

## **6) Programming Arrays**

- a) Arrays in Excel VBA
- b) Arrays and Loops
- c) Multidimensional Arrays
- d) Arrays and the Split function

## **7) Subs and Functions**

- a) Subroutines
- b) Passing Values to a Sub
- c) The Message Box
- d) Functions in Excel VBA
- e) Worksheets Functions
- f) The Set Keyword
- g) Save function as Add-Ins

## **8 )Creating Your First Macro**

- a) Recording Your First Macro
- b) Recording a Marco
- c) See the Recorded Syntax
- d) Run the Recorded Marco

## **9) Excel VBA - Excel Objects**

- a) Create Object

- b) Assigning an Object to a Variable
- c) Object Properties
- d) Object Methods

## **10) Excel Events**

- a) Workbook Event
- b) Worksheets Event
- c) OR Charts Event

## **11) Excel - VBA Error Types[Error Handling]**

- a) Compile Errors
- b) Runtime Errors
- c) Logical Errors ('bugs')

## **12) Excel VBA and User Forms[User Forms & ActiveX ]**

- a) Get Started with User Forms
- b) User Form Buttons
- c) Launching your User Forms

## **13) An Excel Picture Viewer Project**

- a) VBA Option Button Code
- b) Image Box VBA Code
- c) Next and Previous Buttons
- d) Add New Photo Button
- e) Save New Image
- f) Copy an Image with Excel VBA

## **14) An Excel Picture Viewer Project**

- a) Excel Picture Viewer
- b) Design the User Form
- c) Option and Command Buttons
- d) Add New Photo Tab
- e) Form Initialize Event
- f) Get Textbox data

## **15) Connect with an external data**

- a) Read external Files
- b) Dialog Box Practices

## **16 ) Work on automation project**