

Excel Programming with VBA

COURSE SYLLABUS

1. Basic Excel
2. Advanced Excel

1. Macros / VBA

What are Macros?

What is VBA?

How to record macros How to run macros

2. VBA Editor

Modules

Procedures

Project Explorer

Toolbars / Options

3. Creating / Editing Code

Create Procedures

Subs

Comments

4. Invoking Macros

Hot Keys

Quick Access Toolbar

Call Command

5. Compiling Code

Stepping through code

Reset Run

Preventing fatal errors and crashes

6. Variables

Declarations

Option Explicit

Option Compare Text

Option Compare Binary

Lifetime and Scope

Data Types

7. Working with The Object Model

Worksheets

Ranges: Rows, Columns, Cells

Creating & Naming Objects Naming conventions Housekeeping

Applications

8. Navigation

Selection Techniques Formula R1C1 Reference Style

Offsets

Range Names

9. Logic Statements

IF Statements

Nested if

Select statement

10. Looping Statements

Do Loops

While loop

For loop

For each loop

Nested loops

Break

11. Interactive Code

Input boxes

Message boxes

12. Error Handlers

VBA Editor

Project Explorer

Properties Window

13. Modules

Creating / Editing Code

14. Functions

Intrinsic Functions

User Defined Functions

Function Arguments

Return values

15. Events

Workbook Level Events (Explained with Examples)

Workbook Open Event

Workbook NewSheet Event

Workbook BeforeSave Event

Workbook BeforeClose Event

Workbook BeforePrint Event

Worksheet Level Events (Explained with Examples)

Worksheet Activate Event

Worksheet Change Event

Workbook SelectionChange Event

Workbook DoubleClick Event

Excel VBA OnTime Event

Excel VBA OnKey Event

Disabling Events in VBA