

# INSTITUTE FOR MIS & ANALYTICS

## Visual Basic Course Contents

- **Introducing Visual Basic for Applications**
  - Introducing VBA Macros
  - About Macro Security
  - VBA Sub Procedures and VBA Functions
  - Creating VBA Macros
  - Recording your actions to create VBA code
  - Absolute versus relative recording
  - Assigning macro to a button or toolbar
  - Writing VBA Code
  - Understanding Objects, Collection, properties, methods, variables and controlling execution
  
- **Functions and Procedures in VBA**
  - An Introductory Example
  - A custom function and procedure
  - Using the function in a worksheet
  - Analysing the custom function
  - Executing function procedures
  - Calling custom function in procedures and Using custom functions in a worksheet formula, function procedure arguments and Inserting custom function
  
- **Creating User Forms and Reports**
  - Creating Inputbox, MsgBox etc
  - Working with user forms and reports
  - Adding controls, Handling events, Creating the user form & quick reports and Creating an event handling procedure
  - Adding a control such as Check box control, combo box control, command button control, image control, label control, option button control, etc.
  - Linking controls to cells

- **Working with Excel Events**
  - Understanding Events
  - Entering event handled VBA Code
  - Using events such as workbook level events, open event, sheet activate event, new sheet event, before save event, before close event, worksheet events, change event, selection change event, before right click event, non objects event, on time event, on key event.
  
- **Database Connectivity**
  - Connection with Database using various Tools like ADO, DAO, ODBC, etc
  
- **VBA Examples**
  - Copying a variable-size range
  - Moving a range
  - Looping through a range efficiently
  - Prompting for a cell value
  - Determining the type of selection
  - Identifying a multiple selection
  - Counting selected cells and sheets in workbook
  - Working with workbooks
  - Saving and closing all workbooks, and many more.