

# **DASHBOARD & VBA / MACRO PROGRAMMING**

## **OBJECTIVE**

Dashboard Reports Allow User to Get High-Level Overview of the Business and Help Them Make Quick Decisions. Dashboards are Often Called as **Management Information System (MIS)**, Which Provides Information that Organizations Require to Manage Themselves Efficiently and Effectively.

- To Define KPIs (Key performance Indicator), Customer Service Dashboards or Project Management Dashboard (Gantt Chart)
- Dashboard Reports Based on Tables and Number or Charts/Graphs or Both.
- **Introduction to Programming Introduction to logical thinking flowcharts & algorithms:**
  - Define Objective, Start & End Points; Identifying Solution & Breaking it Into Sequential Steps Writing a Algorithm
  - Step-by-Step Instructions, Flowcharts, Process Flow Diagrams. Excel Macros - an Introduction
- **Complete Review of the VBA Language (Subs, Functions, Variables, Arrays, Loops, Logic...etc.)**
  - Excel Macro Language Review (VBA) Including Variables, Data Types, Constants, Arrays, Operators, Expressions, Loops, Logic Decisions And Calling
  - Overview Of Commanding Excel Using VBA Including A Discussion Of Objects, Properties And Methods
  - The Power of Macros - What, When, How to use Macros. Introduction to Object Oriented Programming
  - Objects, Its Functions, Methods and Properties Introduction to Events
  - Details of Events, How & When to use of Events, Preparing to 'Macro' Visual Basic Editor (VBE) – Developer Tab, Security
  - Introduction to the VBE, Properties window, Project Explorer, Password Protection of Code How to use the VBE - Features, Options, Intelligence Technology

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- Debugging Mode, Bookmarks, Breakpoints, Watch Window, Immediate Window and Locals Window Inbuilt VBE Help Feature - Tips and Tricks
- Form Controls vs. ActiveX Controls Getting into the Code
- Message Box and Input Box Working with Data in Excel through VBA
- Data Types, Constants and Variables
- Different type of data type; How and When to use Variables to Store Information.
- For-Next, For-Each, Do-While, Do until, Do Loop Decision-Making and Code Branching
- If-Then-Else, Select-Case, And/or Nested Conditions
- What is user's Defined Functions? How to create & use them
  - Use of Arrays in VBA programming with one dimensional, two dimensional or multi – dimensional analysis.
  
- **Excel VBA Power Programming For VBA Macros**
  - Working with Dynamic Ranges. Protecting Worksheets, Cells and Ranges. Working with Multiple Files. Opening & Saving Files
  - How to Analyze Data On Multi Worksheets And Build Summary Sheets
  - How to Access The Windows File And Folder System To Open And Close Workbooks
  - How to Protect Your Code Against Errors
  - How to Use Excel And VBA To Create Basic Dash Boards
  - How to Create Your Own Custom Business Worksheet Functions In VBA
  - How to Create Basic Report Generation Tools Using Excel VBA, Microsoft Word And PowerPoint
  - How to Use The Excel Visual Basic Macro Recorder To Record Excel Tasks In VBA And Then Interpret The Code
  
- **Overview of Using User forms To Create Business Wizards**
  - Working with User Forms & User Forms Events like List box, Combo box, Option Buttons, Check box, Text box, Labels, Command button, Toggle button.
  - How to create dynamic dashboard on user form with different controls
  - How to link various user form with each other to create a complete interface between user and system

- **Connection between Excel VBA & other platforms**

- How to Establish Connection Between VBA and Internet Explorer to Open any Internet Website through VBA
- How to Establish Connection Between Excel VBA and power presentation to create power point through VBA
- How to Establish Connection Between Excel VBA and Access database to update the data in access through VBA
- How to Establish Connection Between Excel VBA and outlooks through VBA
- How to Establish Connection Between Excel VBA and MS Word through VBA

- **Testing and Debugging Your Code**

- **Effective Error Handling**

- **Automation Development Reports & Live Projects**