GITS ACADEMY

VBA ADVANCED COURSE

CLASS ROOM | ONLINE

RANKED NO.1 ANALYTICS TRAINING INSTITUTE

SINCE

2008

VBA / MACROS PROGRAMMING
IN MICROSOFT EXCEL

A COMPLETE COURSE TO LEARN EXCEL AUTOMATION

PREREQUISITES: GOOD WORKING KNOWLEDGE IN MS EXCEL,	DURATION 30 HRS	TOOLS: MS EXCEL , VISUAL BASIC PROGRAMMING

ABOUT THE COURSE

VBA Advanced course is designed for the audience who has prior knowledge on Advanced Excel, and keen to learn excel automation. We design our courses to help students learn with industry exposure and bridge the gap between learning and industry expectation. This Program is designed for absolute beginners in VBA programming, which covers basic programming concepts to advanced level of programming.

COURSE OUTLINE

Section1: Basic of Macros in Excel

LESSON 1 : VISUAL BASIC EDITOR (VBE) IN EXCEL

Operations and manipulations with VBE, Visual Basic (writing procedure/Functions, Modules, User Forms), Projects window/Code Window/Property window, Toolbars/Object Browser (Library Functions)

LESSON 2 : THE PROJECT WINDOW IN THE VISUAL BASIC EDITOR OF EXCEL

Detailed Explanation of project Window, where you see all the opened Workbooks; where you add modules and user forms.

LESSON 3 : THE PROPERTIES WINDOW IN THE VISUAL BASIC EDITOR OF EXCEL

The properties of the Workbooks; the names of the modules and the properties of all the components of the user form.

LESSON 4 : THE CODE WINDOW IN THE VISUAL BASIC EDITOR OF EXCEL

Write and test all your code, see the dropdown lists in code Window.

LESSON 5 : DEVELOPING MACROS IN THE VBE

Start with creating new VBA procedures from scratch. Learn the loops, Functions, variables and other features.

LESSON 6 : TESTING MACROS IN THE VBE

Use the F5/F8/F9 keys and see what you procedure does in Excel step by step. Back up, correct and re-test.

LESSON 7 : EXCEL MACROS RECORDER

Use the recorder to develop macros rapidly, if you want to do more the Macro recorder is the best teacher and will be great assistant even when you become an expert at programming in VBA. It writes the code for you. In this chapter you will learn about and try the Macro recorder. You will run the macro that you have recorded.

LESSON 8 : MODIFYING MACROS IN THE VBE

Modify the recorded and existing manually created macros..

LESSON 9 : VBA SECURITY AND PROTECTION.

Disable Macros/Enable macros, password protection for a VBA code, Excel file. Protect your code, your sheets and your computer.

LESSON 10 : VBA EVENTS

For a procedure to start it must be triggered, clicking on a button can close a work book, also the value of cell can be changed..

Section 2: Programming Macros in Excel

LESSON 11 : CODE IN VBA FOR EXCEL

Coding tips and tricks, How to select the cell how to enter the value into the cell, how to modify, how to change the text background etc. basic

LESSON 12 : WORKING WITH THE APPLICATION, WORKBOOKS, WORKSHEETS

Application events using VBE like, Open (), workbook_changed (), Quit () List of function to operate the excel workbook, sheet (cut/copy/paste), Chart

LESSON 13 : PLAYING AROUND THE WORKSHEET

Different function to operate the worksheet, calculation and more.

LESSON 14 : COMMUNICATING WITH USERS USING MESSAGE AND INPUT BOXES

Interacting with the user with minimal effort using dialog boxes.

LESSON 15 : WORKING WITH EXCEL DATABASE AND FILTERS

Retrieve the database information (Access Database) into worksheet or on the user forms in excel, sort and filter the data.

LESSON 16 : DEALING WITH ERRORS

How to deal with errors in VBA code, how to add error handler to handle the runtime error.

LESSON 17 : WORKING WITH VARIABLES.

Hard coding/Dynamic coding, VARIANT type variable

LESSON 18 : WORKING WITH STATEMENTS / LOOPS / FUNCTIONS.

They are the KILL, the IF_THEN_ELSE_END, SELECT_CASE, DO_LOOP, FOR_NEXT, or creating Excel functions, using existing VBA functions (e.g Lcase, Ucase, Now, Range etc.)

LESSON 19 : WORKING WITH EXTERNAL DATA AND SQL.

When you connect to outside source of data (large database, text files, other excel workbooks, Access etc.) the computer is using SQL structure Query language) a specialized language to work with data. You can use Excel's functionalities to connect and extract data but you can also use directly the SQL language. It is much faster.

LESSON 20 : WORKING WITH WINDOWS AND OTHER MICROSOFT PROGRAMS.

With VBA for Excel you can develop VBA procedures (macros) to work within in Excel while calling other Microsoft programe4s like Access, Notepad, Word, Project and even Windows.

Section 3: User Forms and Controls in Excel

LESSON 21 : FORMS (USER FORMS) IN VBA FOR EXCEL.

Develop User Forms; Manage and Set the Control Properties, access the control with VBA code.

LESSON 22 : PROPERTIES AND VBA CODE FOR COMMAND BUTTONS.

The "CLICK" control where most of the code resides in a user form.

LESSON 23 : PROPERTIES AND VBA CODE FOR LABELS & TEXT BOXES.

The user just sees it and cannot submit any information with it.

LESSON 24 : PROPERTIES AND VBA CODE FOR COMBO BOXES

The BIG control, It is a drop-down list.

LESSON 25 : PROPERTIES AND VBA CODE FOR LIST BOXES.

When multiple choices are a necessity.

LESSON 26: PROPERTIES & VBA CODE FOR CHECK BOXES, OPTION BUTTONS & FRAMES.

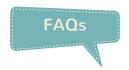The "True/False" controls to be used as a group with a frame.

LESSON 27: PROPERTIES AND VBA CODE FOR SPIN BUTTONS.

They are sexier than text boxes and sometimes make a difference in the clients' opinion of your talent.

LESSON 28: EXCEL VBA CONTROLS' PROPERTIES AND VBA CODE.

They are the controls to build catalogs and shopping carts.

VBA DO'S AND DON'TS - BEST VBA RESOURCES - CASE STUDIES

ARE THERE ANY PREREQUISITE?

Advanced Excel courses to complete is prerequisite before enrolling this course. some programming experience is would be a added advantage. (in any language).

WHAT IS THE KEY LEARNING OUTCOMES OF THIS COURSE?

At the end of the training the participants would learn/use/acquire the following techniques/knowledge:
• Process Automation
• Tool Development - Excel
• Report Generation Automation
• Eliminate Manual Process/Manual Interaction
• Organize & Managing data easily using the tool
• Excel Based Automation
• Organizing data into Multiple workbooks/worksheets
• Automation of Import/Export utility
• Dynamic Pivot Tables
• Dynamic Charts
• Interaction to Databases (MS-Access, SQL Server etc.)
• Interaction of Applications (eg: PowerPoint, Outlook, Word)
• Automate the Send e-mail (Download attachment, send file etc.)
• Eliminate Manual Process/Manual Interaction
• Automate complex analysis easily

WHAT IS THE SCOPE OF LEARNING?

• VBA Developer
• VBA Programmer
• Easily find the jobs in Organization (eg: Finance, Banking, Sales, Insurance, Retail etc)
• Reduces the Process Time
• User Friendly tool
• A user can run reports easily
• Opportunities for New Business reports, MIS Reports.
• Cost effective report
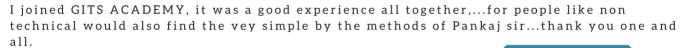
WHAT IS THE TRAINING METHODOLOGY OF GITS ACADEMY?

• The training delivery would be case based instructor lead training.
• Each training day the participants learn the VBA topics and would solve cases.

Student's Speak

After completing this training, I must say that, my decision was correct to join GITS Academy. Training was upto my set expectation, training was a VBA expert from industry.. this Knowledge will help me for my carrier , thanks
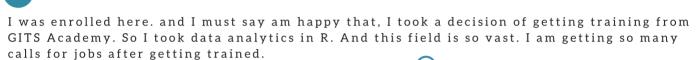
★★★★★ Shivam Datta

I joined GITS ACADEMY, it was a good experience all together,...for people like non technical would also find the vey simple by the methods of Pankaj sir...thank you one and all.

★★★★★ Aman Mehta

I was enrolled here. and I must say am happy that, I took a decision of getting training from GITS Academy. So I took data analytics in R. And this field is so vast. I am getting so many calls for jobs after getting trained.
I would strongly recommend GITS Academy to you all. ☺

★★★★★ Jyothi N

I am beginner in Excel, and join GITS Academy to enhance my skills, Joined Advanced Excel and VBA in Jayanagar weekend classes. I am very happy with the over all experience , got a very good learning from trainers…

★★★★★ Ajith V

Courses Offered by GITS Academy

Business Analytics

Advanced Excel

VBA/ Macros

SAS Base/ Advanced
Data Science Professional

Predictive Modelling

SQL Server/ MSBI
Big Data Analytics/Hadoop

Python

Cognos

Data Visualization

QlikView
Tableau
 MS Power BI
 SpotFire

Other Courses

Project Management
Information Technology
Soft Skills
Data Base

Our Clients

Training Locations

GITS
Learn Apply Succeed
www.gitsacademy.com

Central Helpline   9590800200