

RECONIZE YOUR CAREER



PROFESSIONAL TRAINING INSTITUTE

1. MIS & Data Analysis in Excel
2. Power BI
3. MS SQL
4. Power App (Create Mobile App)
5. Python

Welcome to **Deep Vision Technology Pvt Ltd** your trusted partner in professional computer education. We are a dedicated institute focused on delivering high-quality, industry-relevant computer courses that empower students and professionals to thrive in today's digital world. With a mission to bridge the gap between theoretical knowledge and practical skills, we offer a wide range of programs designed for beginners, students, job seekers, and working professionals. Our expert trainers bring real-world experience into the classroom, ensuring that every learner gains not just technical know-how but also the confidence to apply it effectively. Whether it's basic computer skills, advanced programming, graphic design, accounting software, or cybersecurity – we have the right course to match your goals. At **Deep Vision Technology Pvt Ltd**, we believe in education that transforms careers. Join us and take your first step towards a successful future in the world of technology.

Course Duration: 85-95 HRS with Highly Skilled Corporate Trainers for 3 Modules.

Please visit to our Company website to get more details: www.deep-vision-technology.com

NOTE: Classes Are Also Available on Module Basis

*All Professional Courses are available in Online Mode.
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Module 1 - Basic & Advanced Excel Objective

What is Excel?

Microsoft Excel is a general-purpose electronic spreadsheet to use to organize, calculate, and analyze data. The task you can complete with Excel ranges from preparing a simple family budget, preparing a purchase order, create an elaborate graph/chart, or managing a complex accounting ledger for a medium size business.

Provide Basic/Advanced Understanding of Excel, make user familiar to create formula and give platform to make good analysis and introduce Powerful tools of advance excel so that user can make advance analysis with the help of those tools.

➤ **Introduction to Excel:-**

- ✓ Basic Understanding Menu and Toolbar, Introduction to different category of functions like Basics, Mathematical and Statistical, Date and Time, Logical, Lookup and References, Text and Information.

➤ **Mathematical Functions:-**

- ✓ Sum, Sumif, Sumifs, Count, Counta, Countblank, Countif, Countifs, Average, Averagea, Averageif, Averageifs, Subtotal, Aggregate, Rand, Randbetween, Roundup, Rounddown, Round, Sumproduct

➤ **Date & Time Function:-**

- ✓ Date, Day, Month, Year, Edate, Eomonth, Networkdays, Workday, Weeknum, Weekday, Hour, Minute, Second, Now, Today, Time

➤ **Text Functions & Data Validation:-**

- ✓ Char, Clean, Code, Concatenate, Find, Search, Substitute, Replace, Len, Right, Left, Mid, Lower, Upper, Proper, Text, Trim, Value, Large, Small Filters (Basic, Advanced, Conditional), Sort (Ascending, Descending, Cell/Font Color), Conditional Formatting, Data Validation, Group & Ungroup, Data split.

➤ **Statistical Function & Other Functions:-**

- ✓ Isna, Isblank, Iserr, Iseven, Isodd, Islogical, Isytext, Max, Min, Len, Right, Left, Mid, ,Maxa, Maxifs, Median, Minifs

➤ **Logical Functions:-**

- ✓ And, Or, If, Iferror, Not, Nested If

➤ **Lookup & Reference Functions:-**

- ✓ VLookup, HLookup, Index, Match, Offset, Indirect, Address, Column, Columns, Row, Rows, Choose, Arrays Concept In Lookup Formula's, Past Special, Past link

➤ **Power Pivot- MIS, Data Analysis & Visualization:-**

- ✓ Pivot Table, Power Pivot, What-if Analysis, Data Table –One Variable and Two Variables, Data Analysis Using Statistics, Descriptive Statistics, Moving Average, Testing Hypothesis, Measuring Covariance and Correlation, Distribution, Regression, Graphs & Charts, Analysis Tool Pack, Solver, Histogram, Pareto, Water Fall, Import and Export data, Protect/Unprotect sheets/workbooks, Worksheet formatting and Print Display

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- **Data Collection Method:-**
 - ✓ With Data Quality, Collaboration & Security Like Share Your Workbook On Share Drive With Quality
- **Analysis Single/Multidimensional Analysis:-**
 - ✓ Like Three Dimensional (3D) Tables, Sensitive Analysis Like Data Table, Manual What-If Analysis, Threshold Values, Goal Seek, One-Variable Data Table, Two-Variable Data Table
- **Advanced Dashboard in Excel:-**
 - ✓ Overview of Chart types, Chart Formatting, Active X Form Controls, Principle of great dashboard design, Selecting Correct Chart to display data, Interactive Charts with Form Controls, Combo box, Check Box, Scroll Bar and Radio Button, Interactive Dashboard with Form Controls, Form Controls for reports automation, Data Models using Power Pivot
- **Two Live Report Development in Advanced Excel:-**
 - ✓ Real World Data

Module 2- DASHBOARD & VBA / Macros 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

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- of Code How to use the VBE - Features, Options, Intelligence Technology*
- ❖ *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

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Module 3 – Power BI

- **INTRODUCTION TO POWER BI**
 - ✓ Introduction to Business Intelligence (BI)
 - ✓ Stages of business intelligence (BI)
 - ✓ Use cases of BI
 - ✓ Various BI tools
 - ✓ Overview of Data warehouse & concepts
 - ✓ Introduction to Power BI
 - ✓ Why Power BI
 - ✓ Power BI Components
 - ✓ Power BI pricing structure
 - ✓ Building blocks of Power BI
 - ✓ Architecture of Power BI
 - ✓ Power BI vs Tableau vs QlikView
 - ✓ Introduction of Power BI Desktop
 - ✓ Installation of Power BI Desktop
 - ✓ The key features of Power BI workflow
 - ✓ Process of creating reports in Power BI
- **DATA EXTRACTION**
 - ✓ Overview of Power BI desktop
 - ✓ Data sources in Power BI
 - ✓ Using files (excel, pdf, csv, etc.) as a data source
 - ✓ Using SaaS connectors
 - ✓ Extracting data from folders, and databases
 - ✓ Working with Azure SQL database and database sources
 - ✓ Connecting to Analysis Services
 - ✓ Other data sources (OData, web, SharePoint etc.)
 - ✓ Python & R script in Power BI
 - ✓ Introduction of power query editor
 - ✓ Advance editor
 - ✓ Query dependency editor
- **DATA TRANSFORMATION – SHAPING & COMBINING DATA**
 - ✓ Shaping data using Power Query Editor
 - ✓ Formatting data
 - ✓ Transformation of data
 - ✓ Understanding of Data types
 - ✓ Data profiling for data quality check
 - ✓ Naming conventions & best practices to consider
 - ✓ Identify and create appropriate keys for joins
 - ✓ Working with Parameters
 - ✓ Merge Query

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- ✓ Append Query
- ✓ Group by of data (aggregation of data)
- ✓ Applied steps (query settings)
- ✓ Duplicate & Reference tables
- ✓ Transpose of data
- ✓ Fill
- ✓ Pivot & Un-pivot of data
- ✓ Custom columns
- ✓ Conditional columns
- ✓ Replace data from the tables
- ✓ Split columns values
- ✓ Move columns & sorting of data
- ✓ Detect data type, count rows & reverse rows
- ✓ Promote rows as column headers
- ✓ Hierarchies in Power BI
- ✓ M query

➤ DATA MODELLING & DAX

- ✓ Introduction of relationships
- ✓ Creating relationships
- ✓ Cardinality
- ✓ Cross filter direction
- ✓ Use of inactive relationships
- ✓ Introduction of DAX
- ✓ Why DAX is used
- ✓ DAX syntax
- ✓ DAX functions
- ✓ Context in DAX
- ✓ Calculated columns using DAX
- ✓ Measures using DAX
- ✓ Calculated tables using DAX
- ✓ Learning about table, information, logical, text, iterator,
- ✓ Time intelligence functions (YTD, QTD, MTD)
- ✓ Cumulative values, calculated tables, and ranking and
- ✓ rank over groups
- ✓ Date and time functions
- ✓ identify poorly performing measures, relationships,
- ✓ and visuals
- ✓ DAX advanced features

➤ DATA VISUALIZATION WITH ANALYTICS

- ✓ Deep dive into Power BI data visualization
- ✓ Understanding Power View and Power Map
- ✓ Data visualization techniques

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- ✓ Page layout & Formatting
- ✓ Power BI Desktop visualization
- ✓ Formatting and customizing visuals
- ✓ Visualization interaction
- ✓ Custom visualization in Power BI
- ✓ Top-down and bottom-up analytics
- ✓ Drill down
- ✓ Drill through
- ✓ Page navigations
- ✓ Bookmarks
- ✓ Selection pane to show/hide visuals
- ✓ Comparing volume and value-based analytics
- ✓ Combinations charts (dual axis charts)
- ✓ Filter pane
- ✓ Slicers
- ✓ Use of Hierarchies in drill down analysis
- ✓ Theme for corporate standards
- ✓ Power BI template for design reusability
- ✓ Mastering the best practices
- ✓ Performance analyzer in Power BI for
- ✓ monitoring performance of report
- ✓ Power BI Q&A (Natural Language Query visual)
- ✓ Sync slicers
- ✓ Tooltips & custom tooltips
- ✓ Tables & matrix
- ✓ Conditional formatting on visuals
- ✓ Waterfall chart, KPI, Donut chart, Scatter chart
- ✓ Geographical data visualization using Maps

➤ **POWER BI SERVICE (Cloud), Q & A AND DATA INSIGHTS**

- ✓ Introduction to Power BI Service
- ✓ Introduction of workspaces
- ✓ Dashboard
- ✓ Creating & Configuring Dashboards
- ✓ Dashboard theme
- ✓ Reports vs Dashboards
- ✓ Building workspace Apps
- ✓ Sharing reports & dashboards
- ✓ configure subscriptions and data alerts
- ✓ Paginated report and Introduction to Power Q & A

➤ **POWER BI SETTINGS, ADMINISTRATION & DIRECT CONNECTIVITY**

- ✓ Getting to understand Power BI Desktop settings
- ✓ Aggregating data from multiple data sources
- ✓ Power BI Service settings
- ✓ Power BI Admin Portal
- ✓ Administration activities
- ✓ Power BI usage analysis
- ✓ Introduction of Office 365 admin activities
- ✓ Introduction of Data Gateway
- ✓ Installation & Configuration of data gateways
- ✓ Scheduling auto data refresh
- ✓ Managing groups, row-level security, datasets, reports, and dashboards
- ✓ Real time data analysis using Direct Connectivity
- ✓ Direct Query vs Import Mode

➤ **EMBEDDED POWER BI WITH API & POWER BI MOBILE**

- ✓ Introduction to embedded Power BI
- ✓ Create embedded code
- ✓ Manage embedded code
- ✓ Integration of Power BI in SharePoint
- ✓ Introduction of Power BI API
- ✓ Power BI Embedded playground
- ✓ Introduction to Power BI Mobile
- ✓ Creating mobile based reports & dashboards
- ✓ Optimizing report for Power BI mobile app
- ✓ Features of Power BI mobile app
- ✓ Introduction of integrating Power BI & Excel
- ✓ Power BI Analyze in Excel

➤ **POWER BI ADVANCE & POWER BI PREMIUM**

- ✓ Introduction of Power BI Premium
- ✓ Power BI Premium per user
- ✓ Power BI Premium features
- ✓ Introduction to Data Flow
- ✓ Create Data Flow
- ✓ Advantages of Data Flow
- ✓ Create reports using Data Flow

Module 4 - MS - Access & SQL (Structure Query Language)

Access is a relational database management system (RDBMS) from Microsoft that combines the relational Microsoft Jet Database Engine with a graphical user interface and software development tools. ... It can also import or link directly to data stored in other applications and databases.

➤ ***Introduction to SQL***

- ✓ *SQL Course overview*
- ✓ *Installing the test environment*
- ✓ *What is SQL?*
- ✓ *Editors and Platforms to learn SQL*

➤ ***Complete SQL in a Class***

- ✓ *Quick-start introduction*
- ✓ *Using the basic SELECT statement*
- ✓ *Selecting rows*
- ✓ *Selecting columns*
- ✓ *Counting rows*
- ✓ *Inserting data*
- ✓ *Updating data*
- ✓ *Deleting data*
- ✓ *Import and Export data*

➤ ***Fundamentals of SQL***

- ✓ *Databases and tables*
- ✓ *SQL syntax overview*
- ✓ *Data Definition, Data Manipulation, Data Control, Transactional Control statements*
- ✓ *Creating tables*
- ✓ *Deleting a table*
- ✓ *Inserting rows into a table*
- ✓ *Deleting rows from a table*
- ✓ *What is NULL?*
- ✓ *Controlling column behaviors with constraints*
- ✓ *Changing a schema with ALTER*
- ✓ *Filtering data with WHERE, LIKE, and IN*
- ✓ *Removing duplicates with SELECT DISTINCT*
- ✓ *Sorting with ORDER BY*

➤ ***How Relationships Work in SQL***

- ✓ *Understanding joins*
- ✓ *Accessing related tables with JOIN*

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- ✓ *Multiple related tables*
- **Explaining SQL Strings**
 - ✓ *About SQL strings*
 - ✓ *Finding the length of a string*
 - ✓ *Selecting part of a string*
 - ✓ *Removing spaces with TRIM*
 - ✓ *Making strings uppercase and lowercase*
- **Numbers and SQL**
 - ✓ *About numeric types*
 - ✓ *Finding the type of a value*
 - ✓ *Integer division and remainders*
 - ✓ *Rounding numbers*
- **SQL Functions and Clause**
 - ✓ *The Aggregate functions MIN, MAX,*
 - ✓ *AVG, SUM and COUNT, UPPER, LENGTH, LOWER*
 - ✓ *The GROUP BY and HAVING clauses Grouping in a combination with joining*
- **Triggers in SQL**
 - ✓ *Concept of Trigger*
 - ✓ *Create Trigger for (Insert,Update,Delete)*
 - ✓ *Alter Trigger*
- **What are Subselects and Views in SQL**
 - ✓ *Creating a simple subselect*
 - ✓ *Searching within a result set*
 - ✓ *Creating a view*
 - ✓ *Creating a joined view*
- **Maintaining SQL Server Database**
 - ✓ *Backup Database*
 - ✓ *Restore Database*
- **SQL Server Job Creation**
 - ✓ *How to create job in SQL Server Agent*
 - ✓ *How to schedule job*

Fee According to Module:-

| <i>Course Module</i> | <i>Course Duration</i> | <i>Current Fee</i> |
|---|------------------------|--------------------|
| Module 1 (MIS & Data Analysis in Excel) | 25 - 30 (Hours) | 3000 |
| Module 2 (VBA Coding) | 25 - 30 (Hours) | 5000 |
| Module 3 (Microsoft Power BI) | 25 - 30 (Hours) | 7000 |
| Module 4 (Microsoft SQL) | 25 - 30 (Hours) | 5000 |
| Module 5 (Power App) | 35 - 40 (Hours) | 10000 |
| Module 1,3 & 4 | 70 - 80 (Hours) | 15000 |
| Module 1,3, 4 & 5 | 85 - 95 (Hours) | 25000 |
| Module 1,2 & 3 | 85 - 95 (Hours) | 13000 |

Note: *Service Tax Applicable on all Course Module*

Batch Timings:-

| <i>Days</i> | <i>Class Available Between</i> | <i>Class Duration</i> | <i>Course Duration</i> |
|-------------------|--------------------------------|-----------------------|------------------------|
| Monday to Friday | 09:00 AM to 9:00 PM | 2 Hours | 2 Months |
| Saturday & Sunday | 09:00 AM to 9:00 PM | 2 Hours | 3-4 Months |
| Sunday | 09:00 AM to 9:00 PM | 2-3 Hours | 5-6 Months |