

ANALYTICS EDGE

WITH AI

Powered by AI

Duration 4 Months

MS-EXCEL

Introduction to Advanced MS Excel :-

- ◆ **Circular References error, Rectify Circular Reference, Formula Auditing, Structured Reference Solve The Real World Excel Problems with Functions:**
- ◆ **Mathematical Functions:**
 - Abs, Sum, Sumif, Sumifs, Count, Counta, Countif, Countifs, Countblank, Average, AVERAGEA, AVERAGEIF, AVERAGEIFS, Subtotal, Aggregate, Rand, RANDBETWEEN, ROUNDUP, ROUNDDOWN, ROUND, SUMPRODUCT
- ◆ **If Formulas:**
 - If, If with OR, If with AND, If with AND & OR, If with Countif, If With Sumif.
 - If with Trim, If with Concatenation, If with Left, Mid, Right.
 - If with Other formulas, Complex formulas writing in If.
 - Nested If (For Multiple Conditions), If condition used more than one time in the same formula.
 - Production Store Management template with the help of Nested If. (Example)
 - Nested if with left, Mid, Right
 - More If Formulas:
 - Nested if with Multiple Text Functions, TAX Calculation, Other Critical Lookup Formulas
 - Nested if with VLook-up And Hlookup.
 - Introduction to Name Manager: Name Ranges and Apply the Name Ranges on the combination of Cells.
- ◆ **Date & Time Function:-**
 - Date, Day, Month, Year, Edate, Eomonth, Networkdays, Workday, Weeknum, Weekday, Hour, Minute, Second, Now, Today, Time
- ◆ **Statistical Function & Other Functions :-**
 - Isna, Isblank, Iserr, Iseven, Isodd, Islogical, Isytext, Max, Min, Mid, Maxa, Maxifs, Median, Minifs, Mina, Var, Vara, Correl, Geomean, Rank, Percentile, Frequency.
 - Information Function: IsOdd, IsEven, IsError, IsNumber, IsText, IsBlank, IsRef, ISNA
- ◆ **Some Other Data Base Functions : Dsum, DCount, DAverage, DMax, Dmin**
- ◆ **Lookup & Reference Functions:-**
 - Discussion on Lookup Functions, Use of Lookup, Vlookup, Hlookup, Index, Indirect Match, Offset, Choose, Rows, Columns, Transpose.
 - Vlookup, Hlookup with Name Range And Match .
 - Find Data In Opposition by Index Match.
 - Vlookup, Hlookup with Multiple Functions, Vlookup, Hlookup with arrays.
- ◆ **Array With Multiple Formulas:**
 - Array Formulas work and Use of the Array Formulas, Acceptance of Array Formulas in today's scenario.
 - Linking of Spread sheet with the help of Array
 - Array in Multiple formulas, Array with Lookup functions.
 - Array With Sumifs, Countifs, Sumproduct , Large Functions.
 - 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.
- ◆ **Pivot Table and Pivot Charts with Slicer:**
 - Do the Multiple Field Setting in Pivot Table.
 - Pivot form Multiple Source of Data, Data Ranges, Name Range

Group Pivot Table Items, Multi-level Pivot Table, Calculated Field/Item
Perform the % calculation on the basis of multiple fields, Using Slicer.

◆ **Advanced Chart Technique:-**

How To Make Dynamic Charts, Bar Charts, Pie Charts, Scatter Chart, Line Chart, Column Chart, Speedometer Chart, Gantt Chart, Pareto Charts.

◆ **Advanced Dashboard:-**

Preparation of Advanced Level of Charts: Gantt Chart, Bubble Chart, Waterfall Chart, Use of Data Validation in Charting And Handle With Controls (Combo Box, Check Box, Spin Box, List Box and Option Box.)

Offset function, Combination Of Charts, Time Series Analysis, Visualizing Data.

Use of Formulas Like Offset, Match, Sumif, Sumifs and many more to prepare the Dashboards, Analysis With Trend On Chart.

Use of Sparkline to your Sheet, Working with 2axis and 3axis charts.

◆ **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.

Solve Real World Problem: Goal Seek, One-Variable Data Table, Two-Variable Data Table, Scenario Manager.

◆ **Report Development**

SQL

◆ **SQL Overview**

Relational database concepts, specific products

SQL syntax rules

Data definition, data manipulation, and data control statements

Getting acquainted with the course database and editor

◆ **SQL SELECT statements**

Clauses

The SELECT clause: columns and aliases, where expressions, order by expressions how null Values behave

◆ **SQL Functions and Expressions**

Eliminating duplicates with DISTINCT arithmetic expressions

Replacing null values

Numeric operations, including rounding

Date and time functions

Nested table expressions

Case logic

Other expressions in specific DBMS Products

◆ **SQL Updating**

The INSERT, UPDATE and DELETE statements
Column constraints and defaults
Referential integrity constraints

◆ **SQL Joins**

Inner joins with original and SQL 92 syntax
Table aliases
Left, right and full outer joins, Inner joins
Self-joins

◆ **SQL Sub Queries and Unions**

Intersection with IN, and, Between
Sub queries
Difference with IS NULL and IS NOT NULL sub queries
The purpose and usage of UNION and UNIONALL

◆ **SQL Summarization**

The column functions MIN, MAX, AVG, SUM and COUNT, UPPER, LENGTH, LOWER
The GROUP BY and HAVING clauses Grouping in a combination with joining

POWER BI

Introduction to Power BI:- Power BI Component, Types of Reports in Real-time Usage, Power BI Tools and Implementation Plan Power BI Licensing and Excel Analytics.

◆ **Power BI Desktop Tool:**

Report Visuals, Fields, Pages and Filters
Data and Relationship Option, PBI Canvas
Get Data from DAT Files, Excel Files, Access Files
PBIX and PBIT Files And Re-Using Reports
Data Import Options Designing Simple / Basics Reports in PBI
Visual Interactions in Power BI - Options Spotlight Options with Visuals, Real-time Use
Slicer Visual in Power BI and Data Filters

◆ **Hierarchies & Filters:**

Grouping and Binning with Fields, Bin Size and Biz Limits (Max, Min) Creating Hierarchies. Drilldown, Drill Up Reports
Filters : Types and Usage in Real-time, Conditional Filters, Visual Filters, Page Filters, Report Filter
Drill-thru Filters with Hierarchy Levels TOP N Filters – Usage Filtering at Category Level, Import and Direct Query with Power BI.

◆ **Power Bi Visuals:**

Fields, Formats and Analytics Options
Table Visuals & Properties, Data Bar and Data Scaling Options
Divergent Colors and Data Labeling Matrix : Sub Totals, Grand Totals
Row Groups and Column Groups in Matrix
Slicer Visual - Properties, Alignment Single Select and All Options
Chart Reports - Common Properties Axis, Legend Types- Stacked Bar, Column, Line charts Clustered Bar, Column, Line Chart

◆ **Power Bi Visuals with Different Types:**

Tree Map, Funnel and Gauge Reports, Map Reports
Single Row Card and Multi Row Cards
Callout Values in KPI Reports and Use, Indicator, Trend and Target Goals in KPIs
Using Buttons, Images in Power BI Canvas
Bookmarks in Power BI Desktop – Usage Using Bookmarks for Visual Filters

Data Modeling with Power Query

◆ **Power Query Basic Operations:**

Power Query Usage & Operation Types, QUERY Concept, Properties, Validations
Power Query - Data Mash Up Operations
Basic Data Types, Literals and Values, Expressions
Primitives in M Language, Structured Data Values in Power Query
LIST, RECORD, TABLE, Connection Format Settings let, source, in statements in M Lang Functions,
Parameters in Power Query
INVOKE Functions & Execution Results
Power BI Canvas: Edits, Applied Steps, Frowns, Query Header Row Formatting

◆ **Power Query Usage:**

Power Query Transformations Categories
Query Combine & Merge Transformations, Join Options In Merge Transformation
Truncate, Replace, Split, Reduce Rows, Manage Columns, Hide / Show Columns Grouping,
Aggregations,
Column Formats
Transpose, Reverse Rows Transformations
Power Query - Row Count And Replace, Data Type Detection - Scenarios, Use
Data Type Conversions And Value Replace Fill Up And Fill Down, Pivot And Unpivot Transformations
Move, Filter And Convert to list() Split, Format, Merge, Extract, Parse, Date, Time Data Modeling with

DAX

◆ **DAX Functions:**

DAX as library of Functions, Types, Variables, Operators Dax Formula With Excel, Limitations
DAX Architecture and Entity Sets
Rules OF DAX, Working Options, Syntax, Functions
ROW Context and Filter Context, DAX Structures and Syntax Options
Creating and Measuring with DAX Creating and Using Columns with DAX

◆ **Advance DAX Functions:**

Data Modeling Options in DAX, Detecting & Adding Relations for DAX
Power BI DAX Functions - Types, Usage, Cheat Sheet
Power BI Reports - DAX Functionalities Calculated Columns, Aggregated Measures
Quick Measures in DAX - Auto validations, DAX Performance Date and Time & Text Functions,
Logical & Mathematical Functions
Data Modeling with DAX. Creating Roles
SELECTEDVALUE, FORMAT Functions RELATED, COUNTROWS CALCULATE, SUM, ALL

◆ **Report Development**

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◆ **Report Development**

Python

◆ Introduction to Python Programming

Why do we need Python?
Program structure in Python

◆ Execution steps

Interactive Shell
Executable or script files.
User Interface or IDE

◆ Memory management and Garbage collections

Object creation and deletion
Object properties

◆ Data Types and Operations

Numbers
Strings
List
Tuple
Dictionary
Other Core Types

◆ Statements and Syntax in Python

Assignments, Expressions and prints
If tests and Syntax Rules
While and For Loops
Iterations and Comprehensions

◆ File Operations

Opening a file
Using Files
Other File tools

◆ Functions in Python

Function definition and call
Function Scope
Arguments
Function Objects
Anonymous Functions

◆ Modules and Packages

Module Creations and Usage
Module Search Path
Module Vs. Script
Package Creation and Importing

◆ Classes in Python

Classes and instances
Classes method calls
Inheritance and Compositions
Static and Class Methods
Bound and Unbound Methods
Operator Overloading
Polymorphism
Default Exception Handler
Catching Exceptions
Raise an exception

◆ Advanced Python Concepts

Decorators
Generators
Iterators
Co-routines

Introduction to Matplotlib

Numpy

Panda's

Data Connectivity with My SQL

Tableau

◆ Overview Dashboard, Sheets & Menu Items

- Combined Axis Chart with Stacked Marks
- Combined Axis Chart
- Constant Reference Line
- Creating and Using Sets
- Creating an Interactive Dashboard
- Creating A Histogram With Binned Measures
- Creating a Local Data Connection
- Creating Groups and Hierarchies
- Creating Visual Groupings
- Custom Dates
- Data Filters
- Dual Axis Chart
- Dynamic Bin Size
- Exploring Tableau
- Filled Maps
- Filtering
- Formatting Your View
- Geographic Mapping
- Heat Map
- Highlight Table
- Manipulating Strings And Data Type Conversion
- Motion Chart
- Percent of Total
- Running Total of Sales
- Scatter Plot
- Sharing Work Solution.ppt
- Sharing Work
- showing gaps in data
- Sorting
- Top N Filter
- Totals and Aggregations
- Tree Map
- URL Actions
- Using a Logic Statement to Create a KPI
- Using Date Calculations
- Using Discrete and Continuous Dates
- Using Logic Statements to Regroup Dimension Members
- Variable Increase Amount
- Year Over Year Change

◆ Tableau Advanced

- Accounting for Nulls in a Blend
- Adding Dashboard Actions
- Adding Navigation and Help to Dashboards
- Aggregating Dimensions in Calculations
- Background Images
- Bar in Bar
- Box and Whisker Plot
- Building a Dashboard with Filters
- Bullet Graph
- Calculated Fields and Joins
- Calculations and Aggregations
- Creating a Data Extract
- Dual Axis Map
- Dynamic Measure Selection with Parameters
- Dynamic Reference Line
- Exploring Effect of Primary Data Source Selection
- Geocoding Addresses
- Joining Tables
- Modifying Locations
- Moving Average
- Nested Top N with Context
- Nested Top N with Rank Complex
- Nested Top N with Rank Simple
- Pareto Chart
- Point to Point Mapping
- Profitability as Percent of Total
- Review
- Scope and Direction
- String Date Conversion
- Trend Lines with Forecast
- Trend Lines with Small Multiples
- Using a Calculated Field in a Blended View
- Using a Parameter to Filter across Sources
- Using Rank
- Window Average

Statistics and Probability

◆ Introduction to Statistics

Types of Data: Qualitative vs Quantitative
Scales of Measurement: Nominal, Ordinal, Interval, Ratio
Population vs Sample
Descriptive vs Inferential Statistics

◆ Descriptive Statistics

Measures of Central Tendency: Mean, Median, Mode
Measure of Dispersion: Range, Variance, Standard Deviation IQR Data Visualization:
▪ Histograms
▪ Boxplots
▪ Bar Charts & Pie Charts
▪ Scatter Plots
Shape of Distributions: Skewness & Kurtosis

◆ Probability Concepts

Basic Probability Rules
Conditional Probability
Bayes' Theorem
Independent and Dependent Events
Permutations & Combinations

◆ Probability Distributions

Discrete Distributions:
▪ Bernoulli
▪ Binomial
▪ Poisson
Continuous Distributions:
▪ Uniform
▪ Normal (Gaussian)
▪ Exponential
Central Limit Theorem (CLT)
Law of Large Numbers

◆ Inferential Statistics

Sampling Methods
Confidence Intervals
Hypothesis Testing:
▪ Null & Alternative Hypotheses
▪ Type I & Type II Errors
▪ p-values
▪ t-tests (one-sample, two-sample)
▪ Z-tests
▪ Chi-square tests
▪ ANOVA (Analysis of Variance)

◆ Correlation and Regression

Correlation Coefficient (Pearson, Spearman)
Simple Linear Regression
Multiple Linear Regression
Assumptions of Regression
Multicollinearity
Residual Analysis
R-squared & Adjusted R-squared

◆ Exploratory Data Analysis (EDA)

Outlier Detection
Missing Data Treatment
Data Transformation (log, z-score, etc.)
Feature Scaling (Normalization & Standardization)

◆ Statistical Tools in Data Analysis

Statistical Software:
▪ Excel
▪ Python (NumPy, pandas, SciPy, statsmodels)
Real-world Applications: A/B Testing, Forecasting, Quality control

Google Looker Studio

◆ Introduction to Looker Studio

What is Looker Studio?

Use cases in marketing, sales, finance, operations

Differences between Looker Studio and Looker

◆ Getting Started

Interface walkthrough

Understanding dashboards, reports, and data sources

Connecting to data sources: Google Analytics

Google Ads, BigQuery

(basic), CSV upload

◆ Data Sources and Fields

Dimensions vs. Metrics

Data types (text, number, date, geo)

Creating calculated fields

Data blending basics

Renaming and formatting fields

◆ Building Basic Reports

Report themes and layout

Adding and configuring basic charts Tables Scorecards

Time series, Bar and pie charts

Applying filters and controls: Drop-down menus, Date range selectors

Sorting and styling charts

◆ Sharing and Collaboration

Sharing reports with view/edit access

Embedding reports on websites

PDF exports and scheduled email delivery

Version control and report management

Professional/Advanced Level

◆ Advanced Data Modeling

Using BigQuery with Looker Studio

Blending multiple data sources

Using REGEXP, CASE, and other advanced calculated fields

Date functions and aggregations

Parameter controls for user input

◆ Advanced Visualization

Bullet charts, gauge charts, geo maps

Creating custom visualizations via community visualizations

Conditional formatting and custom number formats

Heatmaps using pivot tables

◆ Performance Optimization

Reducing data source load and latency

Aggregation and sampling issues

Report caching and extract data sources

Using report-level filters vs. chart-level filters efficiently

◆ Interactive Dashboards

Drill-downs and drill-through reports

Linked controls and filter interaction

Cross-chart filtering

Interactive storytelling and guided navigation

◆ Real-World Projects and Use Cases

Marketing dashboard (Google Ads, Ga4, Search Console)

Sales performance dashboard (CRM, Google Sheets)

Website traffic analysis

Financial KPIs dashboard

Campaign tracking dashboard

Building client-ready templates and reusable reports

Tools & Skills Covered

Google Sheets

BigQuery (optional)

GA4, Google Ads

UTM tracking

Basic SQL (for advanced users)

Regex and CASE statements

TIMINGS



7:00 am to 8:30 am | 8:30 am to 10:00 am | 10:00 am to 11:30 am
11:30 am to 1:00 pm | 1:30 pm to 3:00 pm | 3:00 pm to 4:30 pm
4:30 pm to 6:00 pm | 6:00 pm to 7:30 pm

CLASS SCHEDULE



MONDAY, WEDNESDAY, FRIDAY
TUESDAY, THURSDAY, SATURDAY

CERTIFICATIONS



MICROSOFT | TALLY | DIPLOMA | CERTIFICATE | NIELIT | MARG

FEES STRUCTURE



ADMISSION FEES

INSTALLMENT

EXAM FEES

LUMP SUM FEES

Extra Benefits

| INTERVIEW SESSION AND MOCK INTERVIEW |
ASSIGNMENTS | PERSONALITY DEVELOPMENT SEMINAR | DOUBT CLASSES | VOUCHERS | BILL BOOKS |

DELHI SCHOOL OF SKILL DEVELOPMENT CONTACT DETAILS

H-17/253, Near Rohini West Metro Station
Sec-7, Rohini Delhi-85

9212301072, 9811128610

Our Branches

Green Park | Moti Nagar | Nangloi | Rohini | Tagore Garden

TRAINING & ASSESSMENT PARTNERS

