

# **ADVANCED EXCEL:** Analyzing Data

#### Unit I: Introduction to Data Analysis Using Excel

Learn the basics of Excel to help managing, understanding patterns, visualize and gain insights from your data.

Day/Session	Topics Sub-Topics	
	Basics of Excel with historical data on Equity, Commodity etc Editing and basic formatting, Basic data Manipulation, Basic excel features: filtering, sorting	
1-I	Data Filter, Sort, custom sort, Advanced Filter Using Pivot tables & Charts	
	Conditional formatting, Finding duplicates, Inserting/hiding comments Data text to columns using delimiters	
1-I	Using Basic Excel Library Functions: SUM, DIFFERENCE, PRODUCT, SUMPRODUCT, COUNT, COUNTIF, SUMIF, Date Time Functions. DATE, YEAR, DAY, MONTH, WEEKDAY, LOG, LN, SQRT, POWER, EXP etc.	

#### Unit II: Excel Skills for Business

Develop your skills with Excel, one of the common tools that help solving business problems

Day	Topics	Sub-Topics	
	Statistical measures: Average, Median, Mode, Std Correlation and Regression, Percentiles, Quartiles, <b>Freq</b>	deviation, Range Min Max, Variance, Coefficient of variation, uency Distributions	
1-II	Lookup functions: HYPERLINK, INDEX, INDIRE	CT, MATCH, OFFSET, VLOOKUP, HLOOKUP, LEN	
1-II	Data Validation: Data Validation, Circle Invalid	data, Consolidate and Group Data	

### Unit III: Analyzing and Visualizing Data with Excel

Develop your skills with Excel, one of the common tools that data scientists depend on to gather, transform, analyze, and visualize data.

Day	Topics	Sub-Topics
2-I	Financial Functions: PMT, IPMT, PPMT, FV, PV,	NPER, RATE, NPV,
2-I	Case Analysis: Loan & Lease Statement Schedule	
2-I	What if Analysis: Goal Seek, Scenario & Data Table	25
2-I	Data Analysis Tools: Correlation, Covariance, Des	criptive Statistics, Rank and Percentile

## Unit IV: Essential Statistics & Optimization Using Excel

Gain a solid understanding of statistical measures using Excel, and build on your data analysis and data science foundation.

Da	ıy	Topics		Sub-Topics			
2-]	II	Data Analysis Tools: Correlation, Covariance, Descriptive Statistics, Rank and Percentile					
2-]	II	Solver: Optimization (Linear, Transportation problems)					
Kindly Note:							
	L	east Complex	Moderately Com	plex	Most Complex		