

**CRITERIA 1.2.1**  
**Assessment Year 2019-20**



**LESSON PLAN**  
**ADVANCE EXCEL**

~~2018-2019~~

BBA

2019-2020

**Eight Weeks Course**

on

**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	Topics	Sub-Topics	
1	Basics of Excel with historical data on Equity, Commodity etc	Editing and basic formatting, Basic data Manipulation, Basic excel features: filtering, sorting	
1	Data Filter, Sort, custom sort, Advanced Filter Using Pivot tables & Charts		
2	Conditional formatting, Finding duplicates, Inserting/hiding comments Data text to columns using delimiters		
2	Using Basic Excel Library Functions: SUM, DIFFERENCE, PRODUCT, SUMPRODUCT, COUNT, COUNTIF, SUMIF		

**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	
3	Mathematical, Date time functions: DATE, YEAR, DAY, MONTH, WEEKDAY, LOG, LN, SQRT, POWER, EXP etc.		
3	Lookup functions: HYPERLINK, INDEX, INDIRECT, MATCH, OFFSET, VLOOKUP, HLOOKUP, LEN		
4	Importing External Data: From Access, Web, Text Data & Other sources		
4	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	
5	Financial Functions: PMT, PPMT, FV, PV, NPER, RATE, NPV		
5	Case Analysis: Loan & Lease Statement Schedule		
6	Statistical measures: Average, Median, Mode, Std deviation, Range Min Max, Variance, Coefficient of variation, Correlation and Regression, Percentiles, Quartiles, Theoretical Distributions: Binomial & Poisson		
6	Data Analysis Tools: Correlation, Covariance, Descriptive Statistics, Rank and Percentile		



#### 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.

Day	Topics	Sub-Topics
7	Solver: Optimization (Linear, Transportation problems)	
8	Creating Basic Macros using VBA	

