DSO 401: Data Analysis with Spreadsheets





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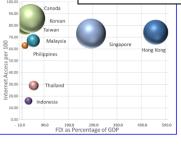
Who should take this course?

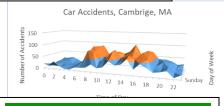
- Students who are interested in working in the finance, realestate and consultancy fields especially.
- Students who want to master the use and design of spreadsheets using Excel in areas of information systems, marketing and operations
- Students who want to have data analytical skills as a hiring competitive advantage

Course Objectives

- · Systematically build spreadsheet-based business and other models
- · Present data effectively through the use of graphs, pivot tables and other data visualization tools
- Apply various logical, lookup and reference functions to extract appropriate values from datasets
- Effectively apply advanced data analytic tools, including advance filters, scenario managers and the solver to achieve optimal solutions in data analysis
- Utilize macros to effectively increase efficiency in data extraction and analyses
- · Create basic custom functions

What Can Excel Do?





Dynamic Dashboard & Charts

Creating Dynamic Charts with SumIFs



TOPICS COVERED

Workshop #2

Conditional Formatting & Data Visualization

Workshop #3

The IF Function: The workhorse of Excel

Workshop #4:

Lookup and Reference Functions

Workshop #5:

Understanding Array Functions & Syntax

Workshop #6

Excel's SUMIFS, Date and Time Functions

Workshop #7

Choose, Errors & Pivot Tables (I)

Workshop #8

Pivot Tables (II) & Gauge Charts

Workshop #9

Sorting, SubTotal, Outline & Advanced Filter

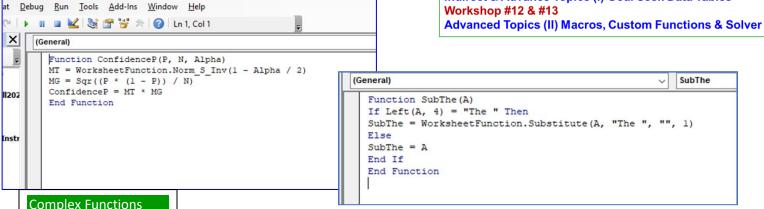
Workshop #10

Text Functions & Regression Review

Workshop #11

Indirect & Advance Topics (I) Goal Seek Data Tables

Custom Functions



-IF(E2-F2*XLOOKUP(C2,Reference Table!\$A\$2:\$A\$6,Reference Table!\$D\$2:\$D\$6)>0,(E2-F2*XLOOKUP(C2,Reference_Table!\$A\$2:\$A\$6,Reference_Table!\$D\$2:\$D\$6))*XLOOKUP(C2,Referenc Table!\$A\$2:\$A\$6,Reference_Table!\$E\$2:\$E\$6),0)