Department of Statistics and Business Analytics

Statistical Consulting Unit

Hybrid Workshops/Training courses

Title: Financial Modeling, Valuation & Analysis in MS Excel

Instructor: Musaddiq Ahmad Khan, CFA, FMVA

Statistical Software: MS Excel

Requirements: Laptop with MS Excel installed

Target Group: Any participant with a basic knowledge of finance & accounting concepts

Date: April 7 – 17, 2025 (with a FREE one-hour online training session on March 22, 2025)

Period: 4 days, 3 hours/session, 12 hours total

Platform: Hybrid (In-person and online sessions)

Inclusive of Scientific Materials: PowerPoint Slide Presentation, Working Excel files, and E-Certificate**.**

Description: This 4-day workshop is structured to prepare participants with essential financial modeling skills using Microsoft Excel. The workshop begins by covering introduction, uses and scope of financial modeling, followed by best practices and main sections needed towards the construction of a financial model. Participants will gain hands on experience about how to design a well-integrated and a dynamic 3 statement professional financial model of a company in MS Excel by using the historical financial statements and setting assumptions, estimates, and key drivers extracted from the case study. Moreover, Participants will learn how to build scenarios (base, best, and worst) using scenario analysis by selecting the key economic indicators and company's fundamentals and link them with projected financial statements to assess company's financial health in future. The workshop will conclude by determining the intrinsic value of a company's share using the Discounted Cash Flow approach. Attendees will perform all tasks using MS Excel in a step-by-step approach.

Topics Covered:

Day 1: Overview and a journey towards the construction of a financial model

- Introduction, significance and application of financial modeling (40 min)
- Warm up: Apply auto sum excel function in all financial statements for financial modeling (30 min)

- Read and examine the case study of a company (20 min)
- Setting and discussing the assumptions and key drivers from the case study (30 min)
- Design the cover page of a financial model (10 min)
- Build the scenarios (base, best, and worst) using scenario analysis based on key economic indicators and the company's fundamentals using Combo Box excel function (40 min)
- Apply a Choose function in excel to select a scenario (base, best, or worst) for assessing the possible outcomes during the forecasting period (10 min)

Day 2: Building support schedules: An important part for financial modeling

- Introducing seven support schedules and their significance in building a financial model (10 min)
- Build a revenue schedule using the information about the price and volume and filling in the projected income statement (15 min)
- Construct a cost schedule in a 4-step process using the information about the fixed cost and variable cost and filling in the projected income statement (20 min)
- Design a depreciation schedule using Transpose excel function from the information provided about the CAPEX and useful life of the existing/new assets and fill in the projected income statement (30 min)
- Build an income tax schedule using the data provided about the timing difference between accounting pretax income and pretax income for government in the case study (20 min)
- Link the current tax, deferred tax and total tax in the projected income statements (10 min)
- Complete the projected income statement till net income except net interest expense and check the links and formulas (15 min)
- Design a working capital schedule in a 4-step process using the assumptions for current assets and current liabilities and filling the projected balance sheet (30 min)
- Build an Equity schedule covering the details about the common shares, dividends, and retained earnings based on the assumptions and estimates given in the case study (20 min)
- Link the common shares and the retained earnings in the forecasted balance sheet (10 min)

Day 3: Completing the schedules, model construction & valuation in financial modeling

- Construct a debt schedule focusing on the long-term debt issuance/repayment and determining the interest expense (40 min)
- Link the ending balance of long-term debt and the interest expense in the forecasted balance sheet and income statement, respectively (20 min)
- Fill the cash flow statements using the income statements accounts, including the interest expenses and changes in the balance sheet accounts, including the cash (45 min)
- Final check and audit the financial model (15 min)
- Computation and projection of unlevered free cash flows using WACC and growth rate assumptions (30 min)
- Calculation of enterprise value using present values of both unlevered free cash flows and terminal value (20 min)
- Determine the equity value and equity value per share (10 min)

Day 4: Analysis in financial modeling

- Perform financial statements analysis by computing key financial ratios (60 min)
- Conduct sensitivity analysis using sets of WACC and growth rates to see the impact on equity value per share (30 min)
- Run the scenarios analysis to see the impact on equity value per share (20 min)
- Design the summary outputs of key financials of a company for base, best, and worst-case scenarios (30 min)
- Auditing and grouping the financial model (30 min)
- Final remarks and conclusion (20 min)

Workshop Fee: 1500 AED**,** 20% off for UAEU students

Contact US: statconsult@uaeu.ac.ae