

# **Certificate Course in Financial Modelling with Excel**

## **Title of the Paper: Financial Modelling with Excel**

**Course Code: FME003**  
**30**

**Contact Hours:**

### **Syllabus**

**Course Overview:** This course aims to equip students with the skills and knowledge necessary to build financial models using Microsoft Excel. Participants will learn how to create dynamic financial models for various business scenarios, including forecasting, budgeting, valuation, and decision-making.

**Outcome:** Upon completion of this course, students will have acquired the skills to develop sophisticated financial models using Excel, enabling them to analyze financial data, make informed business decisions, and communicate insights effectively. They will be well-prepared for roles in finance, accounting, consulting, and other related fields requiring financial modeling expertise.

**Learning Objectives:** This course aims to equip students with the knowledge and skills necessary to build financial models using Microsoft Excel. By the end of the course, students will be able to understand the principles of financial modeling, create dynamic models for forecasting, budgeting, and valuation purposes, interpret and analyze financial data effectively, and make informed business decisions based on model outputs. They will also gain proficiency in using Excel functions and tools specifically for financial modeling applications.

### **Course Content:**

#### **Unit 1. Introduction to Financial Modeling (3 hours)**

- Definition and importance of financial modeling
- Types of financial models (budgeting, forecasting, valuation, etc.)
- Overview of Excel functions commonly used in financial modeling

#### **Unit 2. Excel Basics for Financial Modeling (6 hours)**

- Introduction to Excel interface and navigation
- Formatting cells and data
- Basic Excel functions and formulas (sum, average, IF statements, etc.)
- Working with data tables and charts

#### **Unit 3. Building Financial Models from Scratch (10 hours)**

- Understanding the components of a financial model (income statement, balance sheet, cash flow statement)
- Structuring the model layout and assumptions section
- Creating historical financial statements and projections
- Incorporating revenue and expense forecasts

- Implementing drivers and assumptions for scenario analysis

#### **Unit 4. Forecasting and Budgeting Techniques (6 hours)**

- Time-series forecasting methods (moving averages, exponential smoothing, etc.)
- Budgeting process and methodologies
- Rolling forecasts and variance analysis
- Sensitivity analysis and scenario planning

#### **Unit 5. Valuation Methodologies (5 hours)**

- Introduction to business valuation
- Discounted Cash Flow (DCF) analysis
- Comparable company analysis (CCA)
- Using Excel functions for valuation calculations
- Interpreting valuation outputs and making investment decisions

#### **References:**

Benninga, S. (n.d.). Principles of Finance with Excel  
Nidhi, M. (n.d.). Financial Modelling with Excel: An Essential Guide for Beginners in Excel  
Raju, J. (n.d.). Excel Modelling For Financial Analysis  
Sengupta, C. (n.d.). Financial Modeling Using Excel and VBA  
Sengupta, C. (n.d.). Financial Modelling: Concepts and Implementation Using Excel