

FINANCIAL MODELLING PROGRAM WITH AI

A **Financial Modelling** course is suitable for a wide range of academic students, but it is particularly beneficial for those with interests or backgrounds in finance, commerce, and business-related fields where financial analysis and decision-making play a critical role. The course is most relevant for students who aim to understand how businesses forecast performance, evaluate investments, manage finances, and support strategic planning through structured financial models. Here are the most relevant academic profiles:

- B.Com / BBA / BMS / MBA (Finance) students
- CA, CMA, CS aspirants
- Economics & Commerce students
- Final-year students preparing for corporate roles
- Entrepreneurs or Aspiring Entrepreneurs

KEY PURPOSE OF FINANCIAL MODELLING COURSE

1. Master financial statements & business finance
2. Build professional, dynamic financial models
3. Analyze profitability, cash flows & performance
4. Make smarter decisions using what-if analysis
5. Forecast growth for planning & valuation

Financial Planning program helps professionals to translate financial information into actionable insights for planning, valuation, budgeting, and strategic decision-making.

Key Job roles after this course are:

➔ Financial Analyst ➔ Business Analyst ➔ Investment Analyst ➔ Corporate Finance Executive ➔ MIS & Reporting Analyst

MODULE 1: Advanced Excel for Financial Modelling

- Workbook, Worksheet, Workspaces, Row & Column Settings
- References (Relative, Absolute, Mixed), Consolidation of Sheets
- Sorting and Filtering Data, Advance Filter
- Autofill, Autocorrect, Autoformat, Working with Charts
- If And Analysis, What if Analysis, Goal Seek, Solver, Scenarios
- H Lookup, V Lookup, X Lookup, Importing and Exporting Data
- Data Validation, Power Query, Power Pivot , Pivot Table, Pivot Chart

➤ **Excel Functions**

- Logical Functions: (if, Nested if, AND, OR, NOT, XOR, False, True etc)
- Statistical Functions: (Average, COUNTIF, MAX, MIN, Count, Countblank, etc)
- Data Base Functions: (DSUM, DMAX, DMIN, DCOUNT, etc)
- Math & Trignomaty Functions: (Rand, Round, MOD, SUMIF, LCM etc)
- Information functions: Cell, Error, Isnumber, Iseven, Istext, Type, etc.
- Date and Time Functions: (Date, Day, Now, Today, Month, Year, Time, etc)
- Improve productivity and accuracy in Excel using AI (ChatGPT)

Purpose: transforms raw financial data into dynamic, flexible, and decision-ready financial models.”

MODULE 2: Accounting & Financial Foundation

- Financial Statements (IS, BS, CF)
- 3-Statement relationship
- Accrual vs Cash
- Depreciation & amortization
- Working capital management
- Provisions & reserves
- **Project:** ✓ Analyze real company financials ✓ Statement linkage in Excel

Module 3: Understanding Practical Accounting Terms (Tally/Busy)

- Basics of accounting, Ledger Posting, Bill wise details , Cost center, Allow Invoice
- Multiple Godown, Maintain stock categories, Integrated account and Inventory
- Use tracking number, Ratio Analysis, Profit and Loss statement, Balance Sheet, etc

MODULE 4: Financial Modelling Structure & Standards

- Model architecture
- Input–Calculation–Output separation
- Assumptions sheet
- Control checks
- Formatting & documentation standards
- **Project:** ✓ Create a professional model template ✓ Add automated checks

MODULE 5: Forecasting & 3-Statement Financial Model

- Revenue forecasting methods, Expense & cost modelling
- Fixed vs variable costs, Working capital forecast
- Capex & depreciation schedule, Loan, interest & repayment schedule
- Cash flow projections, Automatic statement linking

Project: Fully dynamic 3-Statement Financial Model

MODULE 6: CVP Analysis & Business Decision

Objective: Support management decisions

- Contribution margin & P/V ratio
- Break-even analysis
- Margin of safety
- Operating & financial leverage
- Make vs Buy & pricing decisions

Project: ✓ CVP Excel models ✓ Case-based decision analysis

MODULE 7: Valuation Modelling

Objective: Investor-ready valuation skills

- Time value of money, FCFF & FCFE
- Discounted Cash Flow (DCF), Terminal value, WACC calculation
- Comparable company analysis, Enterprise vs equity value

Project: ✓ DCF valuation model ✓ Sensitivity analysis on valuation

MODULE 8: Capital Budgeting & Investment Analysis

Objective: Project & investment evaluation

- NPV, IRR, Payback, PI, Capital structure impact
- Project finance basics, Risk-adjusted returns

Project: ✓ Investment appraisal model ✓ Decision dashboards

MODULE 9: Power BI (for Financial Modelling & Analytics)

Objective: Convert financial models into interactive dashboards

- Power BI Desktop, Power BI Architecture
- **Data Extraction and Transformation**
 - Connecting to various data sources (Excel, SQL Server, Web, APIs, etc.)
- Data Sources in Power BI Desktop, Query Editor In Power BI
- **Data Analysis Expression (DAX)**
 - Common DAX Functions, Aggregation Functions
 - Logical Functions, Date & Time Functions, Filter Functions
- **Data Visualization**
 - Visualization Charts in Power BI
 - Matrixes and Tables, Slicers and Map Visualizations
 - Shapes, Text Boxes, and Images, Custom Visuals
- **Power BI Reports and Dashboards**
 - Creating & Configuring a Dashboard
 - Building reports by combining visualizations
- Power BI Service, Power BI Paginated Reports
 - Sharing Reports and Dashboards
- **Power BI Security and Administration**
- **Power BI Integration**
 - Integrating Power BI with Excel
- **AI Features in Power BI**

Projects:

- ✓ Convert Excel financial model into Power BI, ✓ **Profit & Loss Dashboard**
- ✓ Cash Flow & KPI dashboards ✓ Management-ready reports

MODULE 10: Automation & Integration Using VBA

➤ VBA Structure

- Excel Developer Tab overview, Recording & editing Macros
- VBA Editor (VBE) interface, Modules, Procedures & Functions
- Creating Macro-Enabled Files (.xlsm)

➤ VBA Syntax & Programming Fundamentals

- Variables & Data Types, Constants, Comments
- Operators (Arithmetic, Logical, Comparison), Option Explicit

➤ Control Structures

- If...Then...Else, Select Case,
- For...Next Loop, For Each...Next, Do While / Do Until

➤ Working with Excel Objects (Object Model)

- Application, Workbook, Worksheet, Range, Cells, Rows, Columns
- ActiveWorkbook vs ThisWorkbook, With...End With

➤ Commonly Used VBA Methods & Properties

- .Value, .Text, .Formula, .Copy, .PasteSpecial, .Clear, .ClearContents,
- .ClearFormats, .Select, .Activate, .Find & .Replace, .End(xlUp), .Offset, .Resize

➤ Working with Cells & Data

- Dynamic Ranges & Last Row/Column, Data Validation via VBA
- Remove Duplicates, Looping through cells & ranges, Sorting & Filtering

➤ Working with Worksheets & Workbooks

- Add, Delete, Rename Sheets, Protect / Unprotect Sheets
- Open, Close, Save Workbooks, Hide / Unhide Sheets

➤ User Interaction

- MsgBox & InputBox, UserForms (Forms, Controls, Events)
- Buttons & Shape Controls, Custom Dialog Boxes

➤ **Error Handling & Debugging**

- On Error Resume Next, On Error GoTo, Debug.Print

Working with Arrays & Collections

- Static & Dynamic Arrays, Split Function, Collections vs Arrays

➤ **Events Programming**

- Workbook Events and Worksheet Events (Open, BeforeClose, etc)
- Worksheet Events (Change, SelectionChange etc)

➤ **Automation in VBA**

- Automating reports, VBA with Pivot Tables & Charts
- Email automation (Outlook), File handling (Dir, FileSystemObject)

➤ **Real-World Projects (Practical)**

- Automated MIS Reports, Invoice / Billing Automation
- Financial Modelling Automation, Dashboard Automation

MODULE 11: DMAT & Portfolio Modelling

- Introduction to Capital Markets, Types of securities held in DMAT
- How shares are bought & sold
- Portfolio Valuation & Performance Analysis
- Basic Understanding of Capital Gains
 - Short-term vs long-term capital gains
 - An Intro to Tax impact on investment returns

MODULE 12: Capstone Project & Presentation

➤ **Final Project**

- ✓ End-to-end Financial Model
- ✓ Forecasting + Valuation
- ✓ Power BI Dashboard
- ✓ Scenario & sensitivity analysis
- ✓ Management / Investor presentation

Part Time: 6-7 Months X 3 Days/week X 1.5- 2 Hrs || **Full Time:** 4 Months X 6 Days/week X 1.5-2 Hrs

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