## Course Structure

| Parts | Level | Certification | Hrs |
|---|---|---|---|
| Part 1- Basic Tools | Beginner | FM Essential | 18 |
| Part 2- Finance Fundamentals | Beginner | Finance Fundamental | 12 |
| Part 3- Project Finance | Intermediate | Project Finance | 16 |
| Part 4- Equity Valuation | Advance | Financial Modeling | 22 |
| Electives – 3 From 11 Model Projects | Advance | Project Letter | 98 |
| Resume Building & Interview Prep | Advance | | 50 |

## Assessment Structure

- 60% Projects, 40% Quiz
- Minimum Passing Score: 50%

| Part I- Basic Tools for Finance | | | | |
|---|---|---|---|---|
| Module | Type | Title | Sessions | Hrs |
| 1 | Tools | Excel Part 1 | 2 | 4 |
| 2 | Tools | Excel Part 2 | 2 | 4 |
| 3 | Tools | Financial Mathematics | 3 | 6 |
| 4 | Tools | Statistics for Finance | 2 | 4 |
| | | **Total Hrs** | | 18 |

**Part I- Basic Tools for Finance**

**Course Outcomes**

- You should be able to use excel for handling complex data using various functions
- You should be able to demonstrate your financial mathematics knowledge to calculate returns of investments, business, and projects.
- Demonstrate your understanding of risk in investments, its biases and alternate options

### Module 1: Excel Part 1

Introduction to spreadsheets, Logic behind spreadsheets and underlying code,Handling the working of spreadsheets, Cell referencing and its application, Cell freeze and its applications

Case study 1: Sensitivity analysis using Manual referencing

Assignment 1: Post Class Quiz

### Module 2: Excel Part 2

Introduction to the look function category, Vlook up- use, problems, H look application case, Index function and Match function to counter Vlook Up Function, Logical operator in excel and its use in financial Modeling, Sum if functions, Pivot, Slicer and dashboard using excel.

Case Study 2: Vlook practice case

Case Study 3: Exchange data presentation using Look Up

Case study 4: Sales Data Dashboard

## Module 3: Financial Mathematics

Introduction to Time value of money and the concept of compounding, present value, Future Value, Rate, Nper, Beg and End calculations, IRR, XIRR, MIRR, NPV, Discount rate calculation

Case study 5: SIP Fund Selection Case study

Case Study 6: Portfolio Allocation- NIFTY, Crude, Gold

Assignment 2: TVM Basic Questions

Assignment 3: TVM Advance Questions

## Module 4: Statistics for Finance

Introduction to central tendency and application using data, Creating histogram, Frequency polygon and Cumulative frequency chart. Distribution charts and inferences. Dispersion calculations- St Dev, Range, Drawdown and its application. Beta , Co variance calculation and use.

Case study 7: Nifty Vs Franklin Tempelton Mutual Fund Risk Case study

Case study 8: Risk Modeling for NIFTY, CRUDE, Gold

Assignment 4: Statistics Quiz

| Part II- Finance Fundamentals | | | | |
|---|---|---|---|---|
| Module | Type | Title | Sessions | Hrs |
| 1 | Core | Accounting Mechanics | 1 | 2 |
| 2 | Core | Franchise Business Model | 1 | 2 |
| 3 | Core | Financial Statements | 3 | 6 |
| 4 | Core | Ratio Analysis | 1 | 2 |
| | | | | **12** |

**Part II- Finance Fundamentals**

**Course Outcomes**:

• Demonstrate your understanding of the working of Financial Statements
• Apply the understanding of accounting and financial mathematics for decision making

- Deep dive into financial statements
- Understand how to use and interpret ratios for financial statements of companies

## Module 1: Accounting Mechanics

Use of financial statements, interlinkages of three statements and different methods of creating financial statements, Concept of accrual.

Case Study 9: Creating Financial Statement From Scratch in Excel

Case study 10: Creating financial statement s from scratch part 2

## Module 2:Franchise Business

Understand the concept of franchise business and how its different from other formats. Challenges of franchise Business models.

Case study 11: Toyota & Apollo Franchise Business Model
Case Study12: Group presentation on franchise Business Idea

## Module 3:Financial Statements- Deep Dive

Income statement, Balance sheet and cash flow statements components and discussion on line items and ratios to analyse its health
Assignment 5: FSA Quiz
Employability Quiz: FSA Quiz

## Module 4:Ratio Analysis

Activity ratios, Solvency Rations, Leverage rations and its application
Case study 13: Asian Paints
Case study 14: Berger Paints

| Part III- Project Finance | | | | |
|---|---|---|---|---|
| Module | Type | Title | Sessions | Hrs |
| 1 | Project Finance | Start Up Model | 1 | 2 |
| 2 | Project Finance | Manufacturing Business-1 | 1 | 2 |
| 3 | Project Finance | Manufacturing Business-2 | 1 | 2 |
| 4 | Tax | Tax Modeling- Detailed | 2 | 4 |
| 5 | Project Finance | Full Scale Modeling | 3 | 6 |
| | | | | **16** |

**Part III- Project Finance**
**Course Outcome**
- Learn to create a start up business model on travel business
- Demonstrate your understanding of interest capitalisation

- Demonstrate your understanding of Taxation, its complications and effects on returns
- Learn and demonstrate to create multi sheet business model with all the variables of real scenario
- Demonstrate your understanding of assessing business feasibility

## Module 1: Start Up Model

Calculating requirements for business set up and understanding the initial set up costs, calculating income statement, balance sheet and reconciliation using cash flow statement. Scenario analysis of the start up using multiple business situations

Case 15: Travel Agency Model

## Module 2 & 3 Manufacturing Business-1 & 2

Set up cost with construction phasing and interest capitalisation, understanding the concept of moratorium and calculating the returns of the business

Case 16: Manufacturing Business Model -1

Case 17: Manufacturing Business Model -2

## Module 4: Tax Modeling

Get introduced to the concept of tax loss carry forward, MAT, MAT Credits and its effect on IRR. Get introduced to DTL & DTA and how to model in the financial model

Case Study 18: Tax Modeling Case 1

Case Study 19: Tax Modeling Case 2

## Model 5: Full Scale Model

| Part V- Equity Valuation & Research | | | | |
|---|---|---|---|---|
| Module | Type | Title | Sessions | Hrs |
| 1 | Equity Research | Valuation Theories | 1 | 2 |
| 2 | Equity Research | Data collection and reading annual reports | 1 | 2 |
| 3 | Equity Research | Creating Template and Data filling | 1 | 2 |
| 4 | Equity Research | Revenue Driver | 1 | 2 |
| 5 | Equity Research | Cost Driver | 2 | 4 |
| 6 | Equity Research | Schedule Forecast | 3 | 6 |
| 7 | Equity Research | Cashflow & Valuation | 1 | 2 |

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| 8 | Equity Research | Report Writing & Story Telling | 1 | 2 | Get |
|---|---|---|---|---|---|
| | | | | **22** | |

introduced to full scale real life model on project finance, learn how to gather information and understand the working of the business. Calculate revenue drives, cost drivers, construction phasing, Debt schedule, asset schedule , taxation and return calculation

Case study 20: Factory set Up Model

Assignment: Project Finance Quiz

Course Outcomes:
- Demonstrate your understanding of Valuation theories and its application
- Demonstrate how to read annual reports, its parts and  important parts of the annual report
- Demonstrate other sources of information for analyst
- Learn how to break down the business revenue and cost and how to forecast the same
- Learn how to use DCF Valuation and Relative Valuation Model
- Learn how to create power point presentation on the model and present your investment thesis

**Module 1:Valuation Theories**
CAPM, Gordon growth model, Relative valuation model concept, Terminal value , WACC

Case study 21: Valuation Practical Case
Assignment: Quiz on Valuation

**Module 2: Data collection and reading annual reports**
Learn how to list down the needed data, how to find them and how to read annual reports
Case Study 22-1: Persistent Business Model

**Module 3:Creating Template and Data filling**
Learn how to create appropriate template based on the requirement of the business and how to add financial data in the financial statements

Case Study 22-2: Persistent Business Model

**Module 4: Revenue Driver**
Learn how to break down and simply the business model in Price and quantity and do it practically for a business
Case Study 22-3: Persistent Business Model

**Module 5: Cost Driver**

Learn how to break down costs structure of business and techniques to forecast the costs in the future

Case Study 22-4: Persistent Business Model

### Module 6: Schedule Forecast

Learn how to forecast various schedules of the companies financial statements like asset schedule, debt schedule etc using techniques of averaging

Case Study 22-5: Persistent Business Model

### Module 7: Cashflow calculation and Valuation

Compile all your forecasts and conclude the valuation of the business with sensitivity done on WACC, Debt rate, Equity rate and terminal growth rate

Case Study 22-6: Persistent Business Model

### Module 7: Report Writing

Learn the art of creating presentations and communicating stories the research to the investor or fund manager

Case Study 22-7: Persistent Business Model

### Electives

- Each student after completing the five parts has to select a minimum of 3 projects
- Each student will be assigned a mentored group of analysts.
- Weekly update sessions and guided sessions will be held for the same.
- Every student completing the projects gets a project internship letter from the analyst he was working with.

| Ser | Electives Projects ( Minimum 3) | Session | Hrs |
|-----|--------------------------------|---------|-----|
| 1 | Road Project Finance Modeling | | 8 |
| 2 | Port Finance Modeling | | 6 |
| 3 | Real estate Modeling | | 6 |
| 4 | IT Public Listed Modeling | | 8 |
| 5 | M&A Modeling | | 4 |
| 6 | LBO Modeling | | 4 |
| 7 | Excel VBA For Finance | | 4 |
| 8 | Aviation Business Modeling | | 12 |
| 9 | Start Up Business Modeling | | 12 |
| 10 | Advance Excel Formulas | | 4 |
| 11 | Algo Trading Modeling | | 30 |
| | | | **98** |