

<b>COURSE NAME:</b>	Financial Modelling & Valuation
<b>TOTAL DURATION:</b>	45 Hrs
<b>MODE OF DELIVERY</b>	PHYSICAL CLASSROOM TRAINING AT RESPECTIVE COLLEGES
<b>TRAINER TO STUDENT RATIO:</b>	1:50
<b>TOTAL MARKS:</b>	75

<b>Table 1</b>	
<b>OVERALL COURSE OBJECTIVE:</b>	<ol style="list-style-type: none"> <li>1. Evaluate the principles of financial modeling and valuation methodologies tailored to the BFSI (Banking, Financial Services, and Insurance) sector.</li> <li>2. Critique advanced Excel techniques and their role in constructing accurate and reliable financial models.</li> <li>3. Develop financial forecasts and performance analysis strategies to support data-driven decision-making in BFSI operations.</li> <li>4. Construct risk assessment frameworks using scenario and sensitivity analysis to optimize financial decisions.</li> <li>5. Design comprehensive models for asset valuation, financial projections, and performance reporting to meet industry standards.</li> </ol>

<b>LEARNING OUTCOME:</b>	<ol style="list-style-type: none"> <li>1. Critique the core principles of financial modeling and valuation methodologies to justify their application in BFSI (Banking, Financial Services, and Insurance) operations.</li> <li>2. Evaluate advanced Excel tools and techniques for constructing accurate and efficient financial models tailored to BFSI industry requirements.</li> <li>3. Develop financial forecasts and performance analysis models using key performance indicators (KPIs) and scenario-based strategies.</li> <li>4. Construct risk assessment frameworks incorporating scenario and sensitivity analysis to optimize decision-making and mitigate financial risks.</li> </ol>
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	5. Design comprehensive financial dashboards and reports to visualize performance metrics and support strategic business decisions.
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<b>TABLE 2: MODULE WISE COURSE CONTENT AND OUTCOME</b>				
<b>SL.NO</b>	<b>MODULE NAME</b>	<b>MODULE CONTENT</b>	<b>MODULE LEARNING OUTCOME</b>	<b>DURATION (HRS)</b>
1	Introduction to Financial Modeling	<ul style="list-style-type: none"> <li>- Basics of financial modeling</li> <li>- BFSI-specific financial structures</li> <li>- Key tools and concepts</li> </ul>	Critique the fundamentals of financial modeling and its applications in BFSI.	7
2	Advanced Excel for Financial Modeling	<ul style="list-style-type: none"> <li>- Mastery of Excel functions</li> <li>- Data visualization techniques</li> <li>- Financial formulae and macros</li> </ul>	Evaluate the role of advanced Excel techniques in building financial models.	8
3	Valuation Techniques and Methodologies	<ul style="list-style-type: none"> <li>- Discounted Cash Flow (DCF)</li> <li>- Comparable Company Analysis (CCA)</li> <li>- Asset-specific valuation methods</li> </ul>	Evaluate BFSI-specific valuation methodologies for accurate asset valuation.	10
4	Performance Analysis and Forecasting	<ul style="list-style-type: none"> <li>- Financial statement analysis</li> <li>- KPI development</li> <li>- Scenario-based forecasting and stress testing</li> </ul>	Develop financial performance strategies using real-world BFSI data.	12

5	Risk Assessment and Decision-Making	<ul style="list-style-type: none"> <li>- Scenario analysis</li> <li>- Sensitivity analysis</li> <li>- Risk mitigation strategies</li> </ul>	Construct risk assessment frameworks to optimize BFSI decision-making.	8
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<b>TABLE 3: OVERALL COURSE LEARNING OUTCOME ASSESSMENT CRITERIA AND USE CASES</b>				
<b>LEARNING OUTCOME</b>	<b>ASSESSMENT CRITERIA</b>	<b>Performance Criteria</b>	<b>USE CASES</b>	
Critique the fundamentals of financial modeling.	Judge the relevance of financial modeling principles in BFSI operations.	Demonstrates an understanding of financial modeling concepts with real-world applications.	Build a financial model for a bank's loan portfolio to project income and assess default risks.	
Evaluate valuation techniques for BFSI assets.	Assess methods such as DCF, CCA, and Precedent Transactions for asset valuation.	Produces accurate valuations supported by appropriate assumptions and calculations.	Perform a DCF valuation for a non-banking financial company (NBFC) using projected cash flows.	
Develop forecasting strategies for financial performance.	Create performance metrics and conduct scenario-based forecasting for BFSI firms.	Designs accurate financial forecasts and identifies key performance drivers.	Build a forecasting model for a retail banking division to predict revenue and expenses over five years.	
Construct risk assessment frameworks.	Propose methods for scenario analysis, sensitivity	Effectively identifies and evaluates risks, providing actionable	Conduct sensitivity analysis on interest rate fluctuations for a	

	analysis, and risk mitigation.	strategies for decision-making.	bank's fixed-income investment portfolio.
Design comprehensive financial reports and dashboards.	Recommend visualization techniques for reporting financial performance and risk analysis.	Produces visually compelling reports and dashboards that align with industry standards and stakeholder needs.	Create a dashboard to visualize key financial metrics of a bank over a 10-year period.

<b>TABLE 4: LIST OF FINAL PROJECTS (PROJECTS THAT COMPREHENSIVELY COVER ALL THE LEARNING OUTCOME)</b>	
<b>SL.NO</b>	<b>FINAL PROJECT</b>
1	Develop a financial model to predict the performance of a bank's loan portfolio, including interest income and default rates.
2	Create a DCF model to evaluate the intrinsic value of a financial asset or company.
3	Build a stress test model for a bank's balance sheet to simulate the impact of adverse economic scenarios.
4	Use financial modeling to predict the frequency and amount of insurance claims based on historical data.
5	Evaluate the feasibility of new branch openings or IT system upgrades using NPV and IRR techniques.
6	Design a model to classify customers based on profitability and retention potential.
7	Create a sensitivity analysis model for interest rate changes in a fixed-income portfolio.
8	Evaluate the business potential and revenue streams of a peer-to-peer lending platform.

9	Develop a time-series model to predict stock prices based on historical data and macroeconomic factors.
10	Construct a risk matrix to identify and quantify operational risks in banking processes.
11	Build a model to assess liquidity ratios for financial institutions under different scenarios.
12	Design an Excel dashboard to monitor and control operational expenses for a financial services firm.
13	Develop a model to optimize portfolio allocation for high-net-worth clients.
14	Perform a comparative valuation for two financial firms to assess merger feasibility.
15	Create a financial model to assess the performance of multiple bank branches.
16	Build a financial projection model for fintech startups under best, worst, and average scenarios.
17	Develop a model to score customers' creditworthiness based on income, expenses, and credit history.
18	Automate the creation of cash flow statements for small BFSI enterprises using Excel formulas and macros.
19	Evaluate the break-even point for new financial products, including costs and pricing strategies.
20	Estimate the financial impact of compliance with regulatory frameworks like Basel III or GDPR.

<b>TABLE 5: COURSE ASSESSMENT RUBRICS (TOTAL MARKS: 75)</b>					
<b>ASSESSMENT CRITERIA</b>	<b>Learning Outcome</b>	<b>Fair (1–5)</b>	<b>Good (6–10)</b>	<b>Excellent (11–15)</b>	<b>TOTAL MARKS</b>
Financial Modelling Skills	Critique the fundamentals of financial modelling.	Basic understanding with incomplete or error-prone model structures.	Good understanding with minor errors in structure or logic.	Demonstrates mastery with accurate and industry-aligned financial models.	15
Valuation Techniques	Evaluate valuation techniques for BFSI assets.	Limited ability to apply valuation techniques; errors in assumptions and calculations.	Accurate application with minor errors; valuations are moderately detailed.	Mastery of valuation methods with clear, accurate, and justified valuations.	15
Performance Analysis and Forecasting	Develop forecasting strategies for financial performance.	Basic forecasts with limited reliability; lacks depth in KPI selection.	Functional forecasts with clear KPIs; demonstrates moderate accuracy and relevance.	Produces comprehensive forecasts supported by accurate KPIs and real-world relevance.	15
Risk Assessment Frameworks	Construct risk assessment frameworks.	Basic frameworks with incomplete	Moderately structured frameworks with clear identification	Advanced frameworks with thorough risk	15

		risk evaluation.	n of key risks.	evaluation and actionable strategies.	
Reporting and Dashboard Design	Design comprehensive financial reports and dashboards.	Basic reports and dashboards with limited visualization and unclear insights.	Good reports with relevant visuals; demonstrates moderate clarity in presenting financial insights.	Comprehensive and visually appealing dashboards aligned with industry standards and decision-making needs.	15