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

| **Table 1** | |
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| **OVERALL COURSE OBJECTIVE:** | 1. Evaluate the principles of financial modeling and valuation methodologies tailored to the BFSI (Banking, Financial Services, and Insurance) sector.<br>2. Critique advanced Excel techniques and their role in constructing accurate and reliable financial models.<br>3. Develop financial forecasts and performance analysis strategies to support data-driven decision-making in BFSI operations.<br>4. Construct risk assessment frameworks using scenario and sensitivity analysis to optimize financial decisions.<br>5. Design comprehensive models for asset valuation, financial projections, and performance reporting to meet industry standards. |

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| **LEARNING OUTCOME:** | 1. Critique the core principles of financial modeling and valuation methodologies to justify their application in BFSI (Banking, Financial Services, and Insurance) operations.<br>2. Evaluate advanced Excel tools and techniques for constructing accurate and efficient financial models tailored to BFSI industry requirements.<br>3. Develop financial forecasts and performance analysis models using key performance indicators (KPIs) and scenario-based strategies.<br>4. Construct risk assessment frameworks incorporating scenario and sensitivity analysis to optimize decision-making and mitigate financial risks.<br>5. Design comprehensive financial dashboards and reports to visualize performance metrics and support strategic business decisions. |

| TABLE 2: MODULE WISE COURSE CONTENT AND OUTCOME | | | | |
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| **SL.NO** | **MODULE NAME** | **MODULE CONTENT** | **MODULE LEARNING OUTCOME** | **DURATION (HRS)** |
| 1 | Introduction to Financial Modeling | - Basics of financial modeling<br>- BFSI-specific financial structures<br>- Key tools and concepts | Critique the fundamentals of financial modeling and its applications in BFSI. | 7 |
| 2 | Advanced Excel for Financial Modeling | - Mastery of Excel functions<br>- Data visualization techniques<br>- Financial formulae and macros | Evaluate the role of advanced Excel techniques in building financial models. | 8 |
| 3 | Valuation Techniques and Methodologies | - Discounted Cash Flow (DCF)<br>- Comparable Company Analysis (CCA)<br>- Asset-specific valuation methods | Evaluate BFSI-specific valuation methodologies for accurate asset valuation. | 10 |
| 4 | Performance Analysis and Forecasting | - Financial statement analysis<br>- KPI development<br>- Scenario-based forecasting and stress testing | Develop financial performance strategies using real-world BFSI data. | 12 |
| 5 | Risk Assessment and Decision-Making | - Scenario analysis<br>- Sensitivity analysis<br>- Risk mitigation strategies | Construct risk assessment frameworks to optimize BFSI decision-making. | 8 |

**TABLE 3: OVERALL COURSE LEARNING OUTCOME ASSESSMENT**

| CRITERIA AND USE CASES | | | |
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| **LEARNING OUTCOME** | **ASSESSMENT CRITERIA** | **Performance Criteria** | **USE CASES** |
| 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 analysis, and risk mitigation. | Effectively identifies and evaluates risks, providing actionable strategies for decision-making. | Conduct sensitivity analysis on interest rate fluctuations for a bank’s fixed-income investment portfolio. |
| Design comprehensive financial reports and dashboards. | Recommend visualization techniques for reporting financial performance and | Produces visually compelling reports and dashboards that align with industry standards | Create a dashboard to visualize key financial metrics of a bank over a |

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| | risk analysis. | and stakeholder needs. | 10-year period. |

| TABLE 4: LIST OF FINAL PROJECTS (PROJECTS THAT COMPREHENSIVELY COVER ALL THE LEARNING OUTCOME) | |
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| **SL.NO** | **FINAL PROJECT** |
| 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. |

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| 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. |

| **TABLE 5: COURSE ASSESSMENT RUBRICS (TOTAL MARKS: 75)** | | | | | |
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| **ASSESSMENT CRITERIA** | **Learning Outcome** | **Fair (1–5)** | **Good (6–10)** | **Excellent (11–15)** | **TOTAL MARKS** |
| 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 assumption | Accurate application with minor errors; valuations are moderately | Mastery of valuation methods with clear, accurate, and justified valuations. | 15 |

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| | | s and calculations. | detailed. | | |
| 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 risk evaluation. | Moderately structured frameworks with clear identification of key risks. | Advanced frameworks with thorough risk evaluation and actionable strategies. | 15 |
| 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 |