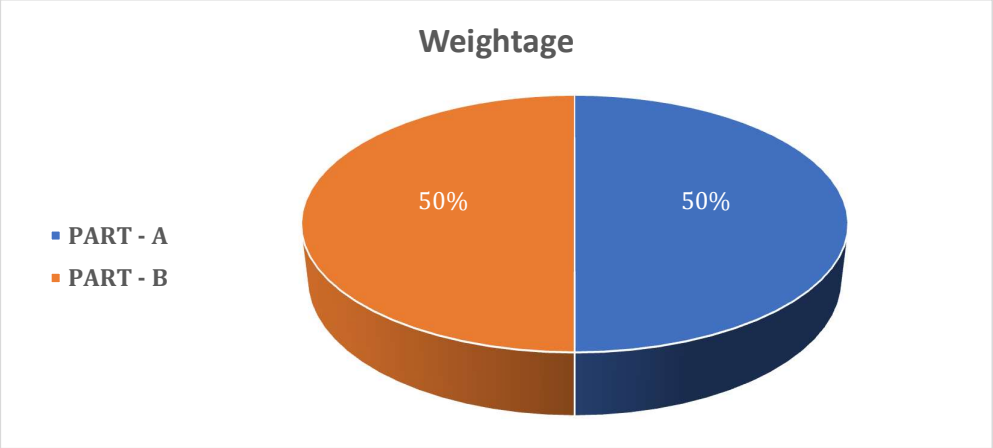
M4 – DIGITAL ACCOUNTING & FINANCIAL MODELLING
(Managerial Level-2)

INTRODUCTION
This outline provides a comprehensive coverage of financial modelling and digital accounting, with a focus on practical applications and case studies. The 54-hour financial modelling outline covers topics such as financial statement modelling, valuation modelling, risk modelling, and advanced financial modelling. The 36-hour digital accounting outline covers topics such as cloud accounting, automation in accounting, and data analytics in accounting

OBJECTIVE
To provide learners with a practical understanding of modern digital accounting tools and cloud-based solutions.
To develop essential skills in automation, data analytics, and financial modelling using Excel and advanced tools.
To enable the application of digital and analytical techniques for effective financial planning, reporting, valuation, and risk management.

LEARNING OUTCOMES
By the end of this course, participants will be able to:
1. Understand and apply digital accounting tools, including cloud platforms, automation, and data analytics.
2. Implement cloud accounting and RPA solutions while addressing collaboration, integration, and security considerations.
3. Use data visualization, analytics, and governance to support financial forecasting, auditing, and decision-making.
4. Build financial models including income statements, cash flow, valuation, and risk models using Excel and scenario analysis.
5. Develop advanced financial models for specific industries, mergers, and ESG compliance, incorporating automation and optimization techniques.

SYLLABUS CONTENTS



PART-A
DIGITAL ACCOUNTING

1. Introduction to Digital Accounting
- Definition and importance of digital accounting
- Overview of digital accounting tools
- Cloud accounting
- Automation in accounting
- Data analytics in accounting
- Case study: Digital accounting implementation

2. Cloud Accounting
- Cloud accounting platforms
- Setting up cloud accounting systems
- Managing financial data in the cloud
- Collaboration and security
- Case study: Cloud accounting implementation
- Benefits and challenges
- Best practices
- Cloud accounting for small businesses
- Integration with other systems
- multi-cloud strategies and zero-trust security models.

3. Automation in Accounting
- Automation tools in accounting
- Using RPA (Robotic Process Automation)
- Automating financial workflows
- Case study: Automation implementation
- Benefits and challenges
- Best practices
- Integration with other systems
- Future of automation in accounting
- Ethics and accountability

4. Data Analytics in Accounting
- Introduction to data analytics
- Data visualization tools

- Data mining and machine learning
- Case study: Data analytics implementation
- Benefits and challenges
- Best practices
- Using data analytics for financial forecasting
- Identifying trends and patterns
- Risk assessment and management
- Audit and assurance
- Data governance
- Future of data analytics in accounting

PART-A
FINANCIAL MODELLING

5. Introduction to Financial Modelling

- Definition and importance of financial modelling
- Types of financial models
- Best practices in financial modelling
- Setting up a financial model
- Basic Excel skills for financial modelling
- Case study: Building a simple financial model

6. Financial Statement Modelling

- Understanding financial statements
- Building a financial statement model
- Income statement modelling
- Balance sheet modelling
- Cash flow statement modelling
- Integrating financial statements
- Case study: Financial statement modelling
- Forecasting financial statements
- Sensitivity analysis
- Scenario planning
- Model auditing
- Best practices

7. Valuation Modelling

- Introduction to valuation
- Discounted cash flow (DCF) modelling
- Estimating cost of capital
- Forecasting cash flows
- Terminal value calculation
- Sensitivity analysis
- Case study: DCF valuation
- Comparable company analysis (CCA)
- Precedent transaction analysis (PTA)
- Other valuation methods
- Model validation
- Reporting results
- AI-driven anomaly detection in audits

8. Risk Modelling

- Introduction to risk modelling
- Types of risk
- Measuring risk
- Value-at-risk (VaR) modelling
- Expected shortfall (ES) modelling
- Stress testing
- Case study: Risk modelling
- Monte Carlo simulation
- Scenario analysis
- Sensitivity analysis
- Model risk management
- Best practices

9. Advanced Financial Modelling

- Advanced Excel skills
- Using macros and VBA
- Building dynamic financial models
- Using add-ins and plugins
- Case study: Advanced financial modelling
- Financial modelling for specific industries
- Mergers and acquisitions modelling
- Leveraged buyout (LBO) modelling
- Project finance modelling
- Real estate finance modelling
- Model optimization
- Best practices
- Scenario modeling for ESG compliance