

Certificate Course on
‘FinTech, Financial Data Analysis & Forecasting’
Jointly Organized by DBI & DIU
Session: October-December 2026
Batch: 5th Batch

Sessions and Topics

Module	Details
Session 01: Introduction to Financial Technology	The FinTech opportunity to improve the Financial System, Industry 4.0, Impact of Industry 4.0 On Economy, Fintech and Digital Transformation, Financial Services Tech & Beyond, Application of FinTech, FinTech Transformation, FinTech Evolution 1.0: Infrastructure, FinTech Evolution 2.0: Banks, FinTech Evolution 3.0 & 3.5: Startups and Emerging Markets, Industry Showcase: Collaboration between Financial Institutions and Startups, FinTech Typology, Emerging Economics: Opportunities and Challenges, From too-Small-To-Care to Too-Big-To-Fail, Big Data, Robo-Advisory Services, Different types of fintech, Bangladesh Startup Ecosystem-FinTech, Introduction to Regulation.
Session 02: Payments, Cryptocurrencies and Blockchain	Individual Payments, Developing Countries and Digital Financial Services (DFS): The Story of Mobile Money, Real-Time Gross Settlement (RTGS) Systems, What is Blockchain?, History of Blockchain, How does Blockchain work?; Role of Miners; Process of Mining, Hash- Technical concepts of Blockchain & Security Protocols, Application of Blockchain in Financial Institutions, Cryptocurrencies, How Bitcoin works?, What are smart contracts? & What is ethereum?, Industry Showcase: Legal and Regulatory, Implications of Cryptocurrencies.
Session 03: FinTech Regulation and RegTech	FinTech Regulations, Evolution of RegTech, RegTech Ecosystem: Financial Institutions, RegTech Ecosystem: Startups, RegTech Startups: Challenges, RegTech Ecosystem: Regulators, Smart Regulation, Redesigning Better Financial Infrastructure.
Session 04: InsurTech & Islamic FinTech	Financial Infrastructure, Innovation in Infrastructure, Regulation & FinTech Innovation, Insurance and FinTech Innovation, Instituting InsurTech in Bangladesh, InsurTech: Global Perspective, Innovation in Property, Emergence of Islamic Fintech and its Developments, Response of Islamic Financial Institutions, Islamic Fintech Developments around the Globe.
Session 05: Future Trends in FinTech	Introduction to the Future Trends, Quantum Computing, Artificial Intelligence, Web 3.0, Robotic Process Automation, Security, Internet of Things, Future of Emerging Technologies, Case Studies from Bangladesh
Session 06: Business Analysis & Understanding Financial Statements	Industry Analysis, Degree of actual competition and Potential Competition, Relative Bargaining Power in Input and Output Markets, Competitive Strategy Analysis, Sources of Competitive Advantage, Achieving and Sustaining Competitive Advantage, Corporate Strategy Analysis, The Basic Accounting Statements (Balance Sheet, Income statement and Cash Flow Statements), Asset Measurement and Valuation, Measuring Financing Mix, Measuring Earnings and Profitability, The role of financial reporting in capital markets, From business activities to Financial statements, From Financial statements to Business Analysis.

Session 07: Understanding of Excel Objects & Customization of Workbook/Sheets/Data	Introduction to MS Excel Sheet, Moving along/across MS Excel Sheet, Entering and Editing Data into Cells, Naming cells, Alignment, Wrap Text & Merging Cells, Filling Cells, Sorting & Filtering, Finding & Selecting, Hiding Cells and Gridlines, Naming, Adding, & Deleting Worksheets, Linking and Referencing inside and across worksheets, Relative and Absolute Referencing, Linking Across Different Files, Row Height & Column Width, Hiding and Un-hiding Rows and Columns, Insert Copied Cells, Operators for Writing Formulas, Conditional Formatting, Format as Tables, Cell Styles, Number Formatting, Forcing text to appear on a new line within a cell, Trick to input data into multiple cell simultaneously, Entering the current date or time into a cell, Making Charts & Sparkline, Freeze Panes, Go To Special, Using Hyperlinks.
Session 08: Advance Skills on Excel Functions	Logical Functions in Excel, Statistical Functions, Text Functions, LOOKUP function, Vertical LOOKUP Function, Horizontal LOOKUP Functions, Variations of Date functions, INDEX Function, MATCH Function, SUMIF and SUMIFS, COUNTIF and COUNTIFS, Pivot Table, Pivot Table with Slicer and Pivot Chart, Power Pivot, Dash Board by using pivot table for quick investment decision, Basic concept of Power BI.
Session 09: Financial Statement Analysis: Conventional & Contemporary Approach	Ratio Analysis, Du-Pont Analysis, Sensitivity Analysis, Discussion Case, Vertical Analysis, Case: Milavec Company Horizontal Analysis, Horizontal Analysis, Case: Milavec Company Horizontal Analysis, Financial Distress Analysis.
Session 10: Prospective Analysis: Forecasting & Equity Valuation	Valuation of Equity: Defining Value for Shareholders, The Discounted Valuation Method, Valuation Using Price Multiples, Dividend Discount Models, Free Cash flow to Equity Models, Firm Valuation: Cost of Capital and APV Approaches, Comparing Valuation Methods, Valuing Private Firms. Case: Equity valuation of Company's by each student Financial Forecasting: The technique of Forecasting, Elements of the Detailed Forecast. Meaning, Significance and Preparation of Pro forma Statements. Managing Sustainable Growth: Concept of Sustainable Growth, Balance Growth, Principles of Sustainable Growth, Sustainable Growth Modeling: Steady-State Model, Changing Model. Budgetary Control: Meaning, Objectives and Essentials.
Final Assessment	

ASSESSMENT CRITERIA-

- Final examination (100 marks) will be held after completing course;
- 60% class attendance is mandatory for eligibility of Exam;
- Pass Marks 50% and grading will be less than 50 marks = Fail, 50-64 marks = Pass, 65-74 marks = Pass with Merit and 75 and above marks = Pass with Distinction.