

Sardar Patel University, Balaghat (M.P.)



Curriculum

For

Diploma in Financial Management
(Banking & Financial Services)

Semester-I

From Session: 2026-27



SARDAR PATEL UNIVERSITY, BALAGHAT (MP)

School of Management Studies & Research

Syllabus

Course – Diploma in Financial Management (Banking & Financial Services)

Semester: I Sem

W.e.f. Academic Session: 2026-27

SEMESTER 1 MASTER BLUEPRINT

Course Code	Course Title	Course Type	Credits	Total Hours	Assessment Mode	Note / Focus Areas
BFS101	Principles of Banking & Financial System	DSC	4	60 (30T + 30L)	Exam + Practical	RBI Framework & Basel Norms
BFS102	Financial Accounting & Analysis	DSC	4	60 (30T + 30L)	Exam + Practical	Ind AS & Reporting
BFS103	Credit Appraisal & Lending Operations	DSC	4	60 (30T + 30L)	Exam + Practical	KYC, CIBIL & Documentation
SEC101	AI Tools for Professional Productivity	SEC	2	30 (10T + 20L)	Optional Practical	Optional Practical
UHV101	Universal Human Values (UHV-I)	UHV	2	30 (Project)	Project	Mandatory Induction Project
AEC101	Business Communication & Soft Skills 1	AEC	4	60 (Viva/Prac)	Viva / Practical	Viva / Practical



SARDAR PATEL UNIVERSITY, BALAGHAT (MP)

School of Management Studies & Research

Syllabus

Subject Name: Principles of Banking & Financial System, Course Code: BFS101

Semester: I Sem

W.e.f. Academic Session: 2026-27

Course Objectives:

1. **COb1:** To understand the structural architecture of the central banking system (RBI) and commercial banking frameworks.
2. **COb2:** To master the capital adequacy guidelines governed by international Basel Accords (Basel I, II, III).
3. **COb3:** To introduce AI-driven macroeconomic trend monitoring and automated central banking policy tracking.

Course Outcomes:

1. **CO1:** Evaluate the functions, monetary policy tools, and statutory liquidity ratios of the Reserve Bank of India.
 2. **CO2:** Calculate capital adequacy ratios (CAR) manually and via spreadsheet models according to Basel III norms.
 3. **CO3:** Deploy AI natural language processing (NLP) models to parse monetary policy statements for sentiment analysis.
 4. **CO4:** Analyze how commercial banks maintain liquidity while maximizing asset yields in a volatile market.
- **Unit 1: Evolution & Architecture of Indian Banking (6 Hours)**
Indian Financial System layout: Commercial Banks, Regional Rural Banks (RRBs), Cooperative Banks, and NBFCs. Banking regulation acts, clearinghouse structures, and automated payment gateways (NEFT, RTGS, IMPS).
 - **Unit 2: Central Banking Mechanics & RBI Framework (6 Hours)**
The Reserve Bank of India (RBI) as the apex regulator. Monetary policy tools: Quantitative (Repo, Reverse Repo, CRR, SLR) vs. Qualitative controls. Financial inclusion strategies and modern digital banking initiatives.
 - **Unit 3: Basel Accords & Capital Adequacy Management (6 Hours)**
Introduction to Risk-Weighted Assets (RWA). Detailed transition from Basel I to Basel II and III frameworks. Three pillars of Basel III: Minimum Capital Requirements, Supervisory Review, and Market Discipline; Capital Conservation Buffers.
 - **Unit 4: AI in Macroeconomics & Policy Analysis (6 Hours)**
Introduction to RegTech (Regulatory Technology). Utilizing Large Language Models (LLMs) to automatically ingest, summarize, and cross-reference daily RBI circulars, master directions, and global economic data.
 - **Unit 5: Asset-Liability Management (ALM) Frameworks (6 Hours)**
Concepts of Liquidity Risk and Interest Rate Risk in banking books. Managing funding gaps, duration matching, and building automated liquidity coverage ratio (LCR) reporting frameworks.

Practical & Lab Experiments (45 Hours)

Lab: BFS101 (Principles of Banking Lab)

- **Experiment 1:** Build a dynamic calculation sheet that ingests a mock bank's asset profile, separates exposures into asset classes, and outputs the Minimum Capital Requirement according to Basel III norms.
- **Experiment 2:** Program a regulatory compliance tracking agent that monitors central bank updates and auto-generates impact alerts based on changes to the repo rate.
- **Experiment 3:** Construct an Asset-Liability Management gap matrix using data logs to flag interest rate sensitivity conflicts.



SARDAR PATEL UNIVERSITY, BALAGHAT (MP)

School of Management Studies & Research

Syllabus

Subject Name: Financial Accounting & Analysis, Course Code: BFS102

Semester: I Sem

W.e.f. Academic Session: 2026-27

- **Course Objectives (COb):**

1. **COb1:** To master corporate accounting structures in alignment with Indian Accounting Standards (Ind AS).
2. **COb2:** To build hands-on efficiency in parsing balance sheets, profit & loss items, and disclosures.
3. **COb3:** To integrate generative AI and robotic tools for automated bank ledger reconciliation and reporting.

- **Course Outcomes (CO):**

1. **CO1:** Prepare and structure corporate financial statements strictly under the Ind AS framework.
2. **CO2:** Execute advanced financial ratio analysis using dynamic data scripts to evaluate corporate health.
3. **CO3:** Apply AI-driven OCR engines to ingest, classify, and match massive volumes of transactional data vouchers.
4. **CO4:** Interpret automated forensic reports to locate window-dressing or financial discrepancies in client statements.

- **Unit 1: Ind AS Convergence & Corporate Reporting (6 Hours)**

Introduction to Indian Accounting Standards (Ind AS) vs. traditional accounting. Framework for preparing financial statements (Ind AS 1). Revenue recognition rules (Ind AS 115) and disclosures.

- **Unit 2: Analysis of Balance Sheets & Income Statements (6 Hours)**

Deconstructing corporate balance sheets, cash flow statements, and notes to accounts. Vertical and horizontal statement analysis. Advanced profitability, leverage, liquidity, and efficiency ratio modeling.

- **Unit 3: Automated Ledger Architecture & ERP Ingestion (6 Hours)**

Moving accounting data flows from manual to cloud-native platforms. Bank ledger integrations, automated bank reconciliation statements (BRS), and managing automated transaction matching pipelines.

- **Unit 4: AI-Led Forensic Accounting & Audit Trails (6 Hours)**

Deploying machine learning models to detect balance sheet anomalies. Training AI algorithms to trace transaction histories, isolate out-of-pattern journal vouchers, and flag creative accounting tricks.

- **Unit 5: Automated Valuation & Dynamic Disclosure Generation (6 Hours)**

Calculating asset impairment (Ind AS 36) and fair value measurements (Ind AS 113). Using generative intelligence platforms to draft standard corporate accounting disclosure narratives from raw data parameters.

Lab & Practical Experiments - Sem 1

Lab: BFS102 (Financial Accounting Lab)

- **Experiment 1:** Convert a traditional set of corporate accounts into an Ind AS compliant reporting format using spreadsheet automation.
- **Experiment 2:** Connect an AI data parsing extraction workspace to a messy bank transactional ledger to automatically isolate duplicate charges and clear 95% of ledger conflicts.
- **Experiment 3:** Build an interactive corporate financial health dashboard that extracts live financial statements and computes core solvency metrics.



SARDAR PATEL UNIVERSITY, BALAGHAT (MP)

School of Management Studies & Research

Syllabus

Subject Name: Credit Appraisal & Lending Operations, Course Code: BFS103

Semester: I Sem

W.e.f. Academic Session: 2026-27

- **Course Objectives (COB):**

1. **COB1:** To learn the end-to-end loan lifecycle, credit underwriting logic, and documentation standards.
2. **COB2:** To understand structural KYC tracking, CIBIL reporting patterns, and credit history matrices.
3. **COB3:** To train students in using predictive machine learning algorithms for alternative credit scoring.

- **Course Outcomes (CO):**

1. **CO1:** Execute complete credit appraisals, verifying retail and corporate borrowers against CIBIL and KYC norms.
2. **CO2:** Evaluate a corporate borrower's working capital requirement using traditional and automated Tandon Committee methods.
3. **CO3:** Program custom AI prompts to securely scan financial historical narratives and identify corporate default warning signs.
4. **CO4:** Formulate legal and financial loan covenants within digital loan agreement frameworks.

- **Unit 1: Core Underwriting Principles & Loan Lifecycles (6 Hours)**

Principles of good lending: Liquidity, Safety, Profitability. Credit lifecycle: Sourcing, Appraisal, Sanction, Documentation, Disbursement, and Post-Sanction Monitoring. Types of credit facilities: Fund-based vs. Non-fund-based (LCs, Bank Guarantees).

- **Unit 2: Statutory Compliance, KYC & Fraud Risk Mitigation (6 Hours)**

Anti-Money Laundering (AML) standards and Know Your Customer (KYC) directives. Digital KYC verification methods, CIBIL structures, Equifax data fields, and parsing credit history files.

- **Unit 3: Financial Credit Appraisal & Working Capital Assessment (6 Hours)**

Assessing corporate loan requests. Balance sheet analysis for credit risk evaluation. Operating cycles, Cash Budget method, and Maximum Permissible Bank Finance (MPBF) models.

- **Unit 4: Algorithmic & Alternative Credit Scoring (6 Hours)**

The shift from traditional credit scoring to predictive data analytics. Utilizing machine learning models to evaluate unstructured parameters (transactional velocity, vendor payments, utility profiles) for processing thin-file borrowers.

- **Unit 5: Documentation Frameworks & E-Deeds Execution (6 Hours)**

Legal documents for lending: Loan agreements, demand promissory notes, hypothecation deeds, and mortgage instruments. Transitioning to electronic documentation, e-stamping, and centralizing digital collateral records.

Lab & Practical Experiments - Sem 1

Lab: BFS103 (Credit Appraisal Lab)

- **Experiment 1:** Process a comprehensive loan application file by checking digital KYC registries, parsing a raw CIBIL file, and calculating total creditworthiness indicators.
- **Experiment 2:** Deploy a machine learning template script to evaluate credit risk parameters for 500 small-merchant data profiles, outputting automated risk tiers.
- **Experiment 3:** Draft a complete corporate credit appraisal memo using an AI underwriting assistant to synthesize the financial analysis and legal covenant protections.



SARDAR PATEL UNIVERSITY, BALAGHAT (MP)

School of Management Studies & Research

Syllabus

Course – Diploma in Financial Management (Banking & Financial Services)

Semester: II Sem

SEMESTER 2 MASTER BLUEPRINT

Course Code	Course Title	Course Type	Credits	Total Hours	Assessment Mode	Note / Focus Areas
IKS201	IKS: Bharatiya Management Thought	IKS	2	30 Hours	Exam / Viva	Exam/Viva
BFS201	Banking Products & Capital Market	DSC	4	60 (30T + 30L)	Exam + Practical	NSE/BSE & SEBI Regulations
BFS202	Risk Management & Compliance	DSC	4	60 (30T + 30L)	Exam + Practical	Credit/Market Risk & NPA
BFS-E1	Digital Banking Elective	DSE	4	60 (30T + 30L)	Exam + Practical	UPI, Blockchain & Open APIs
OJT200	On-Job Training (Industry Immersion)	OJT	6	180 Hours	Field Viva	Field Viva (180 Hours)



SARDAR PATEL UNIVERSITY, BALAGHAT (MP)

School of Management Studies & Research

Syllabus

Subject Name: Banking Products & Capital Market, Course Code: BFS201

Semester: II Sem

W.e.f. Academic Session: 2026-27

- **Course Objectives (COb):**

1. **COb1:** To introduce retail, corporate, and investment banking asset structures alongside capital market environments.
2. **COb2:** To master trading operations, settlement methods, and investment rules governed by SEBI.
3. **COb3:** To integrate AI robotic advisors and algorithmic trade modeling into investment management portfolios.

- **Course Outcomes (CO):**

1. **CO1:** Differentiate between corporate, investment, and retail banking products based on asset risk parameters.
2. **CO2:** Evaluate equity and debt transactions executed through NSE/BSE platforms under SEBI compliance guidelines.
3. **CO3:** Build automated investment advisory workflows utilizing targeted thematic robo-allocation algorithms.
4. **CO4:** Analyze financial market indices to configure risk-optimized asset portfolios.

- **Unit 1: Modern Retail & Corporate Banking Suites (6 Hours)**

Personal banking products: Savings accounts, current accounts, term deposits. Customized corporate structures: Working capital loans, syndication mechanics, term infrastructure project loans, and cash management solutions (CMS).

- **Unit 2: Capital Markets Architecture & SEBI Infrastructure (6 Hours)**

Primary Market vs. Secondary Market operations. IPO bookbuilding workflows. Structure of the National Stock Exchange (NSE) and Bombay Stock Exchange (BSE). The regulatory oversight role of SEBI.

- **Unit 3: Financial Instruments & Derivatives Markets (6 Hours)**

Trading setups for Money Market assets (Treasury Bills, Commercial Papers, Certificates of Deposit). Capital Market structures: Equities, bonds, and corporate debentures. Introduction to financial derivatives (Futures, Options, Swaps).

- **Unit 4: AI Conversational Portals & Algorithmic Wealth Advisory (6 Hours)**

Building automated robo-advisory architectures. Using portfolio optimization logic to monitor real-time market sentiment feeds, rebalance risk weightings, and execute target client trades automatically.

- **Unit 5: Clearing, Mutual Funds & Custodial Workflows (6 Hours)**

Clearing Corporation rules, settlement windows (\$T+1\$ execution standards), and delivery defaults. Mutual Fund structures: Net Asset Value (NAV) computation models and corporate asset custodian frameworks.

Lab & Practical Experiments - Sem II

Lab: BFS201 (Capital Markets Lab)

- **Experiment 1:** Set up an automated portfolio builder that extracts real-time stock ticker values and optimizes weightings using historical covariance values.
- **Experiment 2:** Configure an algorithmic trading script within a simulated exchange workspace to execute buy/sell decisions based on custom indicators.
- **Experiment 3:** Build a SEBI disclosure compliance matrix that cross-checks investment transaction patterns for regulatory reporting leaks.



SARDAR PATEL UNIVERSITY, BALAGHAT (MP)

School of Management Studies & Research

Syllabus

Subject Name: Risk Management & Compliance, Course Code: BFS202

Semester: II Sem

W.e.f. Academic Session: 2026-27

Course Objectives (COb):

1. **COb1:** To analyze operational risk, market risk, and asset deterioration indicators (NPA) inside banking networks.
2. **COb2:** To learn provisioning methodologies, early warning systems, and standard SARFAESI collection procedures.
3. **COb3:** To implement AI predictive tracking loops to detect corporate loan degradation before default.

Course Outcomes (CO):

1. **CO1:** Categorize and compute provisions for Standard, Sub-standard, Doubtful, and Loss-generating assets.
 2. **CO2:** Run automated Value at Risk (VaR) calculations across mixed-asset banking trading books.
 3. **CO3:** Configure AI-enabled early warning system indicators to track loan delinquency vectors.
 4. **CO4:** Design anti-money laundering transaction filtering rules within centralized banking database backends.
- **Unit 1: Typology of Risks in Modern Banking Frameworks (6 Hours)**
Definition and taxonomy of banking risks: Credit Risk, Market Risk, Operational Risk, Liquidity Risk, and Legal/Reputational Risks. Enterprise Risk Management (ERM) organizational setups inside banks.
 - **Unit 2: Market Risk Analytics & Value at Risk (VaR) Models (6 Hours)**
Measuring market risk exposures. Interest rate shocks, yield curve modeling, and foreign exchange exposure tracking. Computing Value at Risk (VaR) using historical simulation methods.
 - **Unit 3: Non-Performing Assets (NPA) & Provisioning Frameworks (6 Hours)**
Income recognition and asset classification guidelines. Asset stages: SMA-0, SMA-1, SMA-2, and NPA thresholds (Sub-standard, Doubtful, Loss). Provisioning coverage ratios (PCR) and calculation tables.
 - **Unit 4: AI Early Warning Systems & Delinquency Tracking (6 Hours)**
Deploying predictive data loops to forecast corporate distress. Monitoring operational metrics (unusual inventory build-ups, promoter share pledges, negative digital news sentiment) via automated web scrapers to flag defaults months in advance.
 - **Unit 5: Debt Recovery Legalities & Compliance Audits (6 Hours)**
Legal options for NPA resolution: Lok Adalats, Debt Recovery Tribunals (DRT), and the SARFAESI Act asset possession rules. Corporate governance standards and modern anti-money laundering (AML) detection patterns.

Lab & Practical Experiments - Sem II

Lab: BFS202 (Risk Management Lab)

- **Experiment 1:** Construct an interactive Value at Risk (VaR) tracking framework to compute potential maximum single-day losses on a multi-asset bank trading book.
- **Experiment 2:** Process a corporate customer database to classify loan assets into accurate SMA/NPA tiers, calculating required statutory provisions.
- **Experiment 3:** Ingest a synthetic enterprise account file into an AI Early Warning System workspace to flag hidden delinquency risks based on transaction histories.



SARDAR PATEL UNIVERSITY, BALAGHAT (MP)

School of Management Studies & Research

Syllabus

Subject Name: Digital Banking Elective, Course Code: BFS-E1

Semester: II Sem

W.e.f. Academic Session: 2026-27

Course Objectives (COB):

1. **COB1:** To master the technical operational paths of payment switches, UPI routing, and open banking protocols.
2. **COB2:** To understand distributed ledger technology (Blockchain) applications and smart contract parameters in global banking.
3. **COB3:** To build open banking sandbox integrations using public API documentation.

Course Outcomes (CO):

1. **CO1:** Map out transaction routing pathways across standard UPI, card network, and switch structures.
 2. **CO2:** Build and test public banking API call responses within an open sandboxed development hub.
 3. **CO3:** Implement smart financial contract verification prototypes using basic distributed ledger parameters.
 4. **CO4:** Troubleshoot electronic payment timeouts, clearing exceptions, and security validation failures.
- **Unit 1: The Unified Payments Interface (UPI) & Mobile Switching (6 Hours)**
The architecture of the National Payments Corporation of India (NPCI). UPI tech framework: Virtual Payment Addresses (VPA), IMPS switching, 2-factor security parameters, and merchant QR settlements.
 - **Unit 2: Open Banking, Neo-Banks & API Management (6 Hours)**
The shift from closed core banking systems to Open Banking via Application Programming Interfaces (APIs). Account Aggregator (AA) framework systems, BaaS (Banking-as-a-Service), and corporate neo-banking operations.
 - **Unit 3: Blockchain Architecture & Smart Financial Contracts (6 Hours)**
Distributed ledger basics: Consensuses, cryptographic node verifications, and permissioned vs. public blockchains. Cross-border payment optimizations and smart contract automation for trade finance (Letters of Credit).
 - **Unit 4: AI-Led Behavioral Fraud Prevention & Cyber Defense (6 Hours)**
Real-time payment card fraud prevention. Using streaming machine learning models to review transactional velocities, IP locations, and device profiles to halt malicious transfers instantaneously.
 - **Unit 5: Central Bank Digital Currencies (CBDC) & Modern Tech Trends (6 Hours)**
Digital Tokenization models. Central Bank Digital Currencies (e-Rupee structure, wholesale vs. retail layers). Managing offline digital currencies and future digital asset compliance paths.

Lab & Practical Experiments - Sem II

Lab: BFS-E1 (Digital Banking Lab)

- **Experiment 1:** Build a test API connection loop inside a sandbox developer environment to simulate an external account balance lookup and fund transfer sequence.
- **Experiment 2:** Initialize a smart financial contract prototype on a local permissioned ledger workspace to automate payment releases once shipping bills are uploaded.
- **Experiment 3:** Configure a real-time transactional fraud validation rule model to intercept and isolate abnormal payment velocities in a simulated web environment

Standard Textbook & Resource Library

Recommended Core Textbooks:

1. **Banking Principles:** Indian Institute of Banking and Finance (IIBF), Principles & Practices of Banking, Macmillan Education.
2. **Financial Accounting:** Taxmann's Editorial Board, Corporate Accounting (Ind AS Compliant edition), Taxmann Publications.
3. **Credit & Lending:** Indian Institute of Banking and Finance (IIBF), Credit Management, Macmillan Education.
4. **Risk Management:** Hull, John C., Risk Management and Financial Institutions, John Wiley & Sons.
5. **Capital Markets:** Indian Institute of Banking and Finance (IIBF), Investment Banking & Capital Markets, Macmillan Education.

Strategic AI & Digital Reference Resources:

1. **Marr, Bernard**, Artificial Intelligence in Practice: How Companies Use AI to Solve Real-World Finance Problems, Wiley.
2. **Chishti, Susanne & Barberis, Janos**, The FINTECH Book: The Financial Technology Handbook for Investors, Entrepreneurs and Visionaries, John Wiley & Sons.
3. **Official Portals:** Reserve Bank of India Database (rbi.org.in), SEBI Regulation Portal (sebi.gov.in), and NPCI Developer Sandboxes (npci.org.in).