H. L. College of Commerce (Autonomous)
Self-Financed Programmes
B.Com. – Banking and Financial Services Syllabus

Sem: **4**	Course Code:	Course Title: **Digital Banking – II**
Credits: **4**	**BFM208-2C**	Course Category: **Major Course**

Course Objective: The objective of this course is to provide students with an in-depth understanding of digital banking infrastructure, FinTech innovations, blockchain applications, cybersecurity frameworks, and emerging trends in the banking sector. It covers Core Banking Solutions (CBS), India Stack, digital lending models, Central Bank Digital Currency (CBDC), cybersecurity threats, and AI-driven banking innovations. By the end of the course, students will be able to evaluate digital banking ecosystems, analyze regulatory frameworks, assess risks in digital transactions, and explore future advancements in financial technology.

Course Outcomes: Upon successful completion of this course, students will be able to:

CO	Cognitive Abilities	Course Outcomes
CO1	**Remembering**	Remember the key concepts such as Core Banking Solutions (CBS), India Stack components (Aadhaar, UPI, Digi-Locker), RBI's digital lending guidelines, and cybersecurity threats (phishing, UPI frauds).
CO2	**Understanding**	Understand the role of FinTech in digital lending, blockchain applications in banking, RBI's CBDC (Digital Rupee) framework, and AI-driven fraud detection mechanisms.
CO3	**Applying**	Apply the use of digital KYC (e-KYC, Video KYC), API-based banking (Account Aggregator), and AI/ML in credit scoring for real-world financial processes.
CO4	**Analyzing**	Analyze cybersecurity risks, regulatory compliance (DPDP Act 2023, RBI's data norms), and decentralized finance (DeFi) opportunities in digital banking.
CO5	**Evaluating**	Evaluate the future trends and case studies to predict the evolution of digital banking.

Course Content

Unit No.	Unit Contents	Sessions Allotted
1	**Core Banking Solutions (CBS) & Digital Infrastructure:** - Role of Core Banking Solutions (Finacle, TCS BaNCS, Flexcube) - Cloud Banking & API-driven Banking (RBI's Account Aggregator Framework) - Digital KYC (e-KYC, Video KYC, Aadhaar-based Authentication)	12

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	- India Stack (Aadhaar, UPI, DigiLocker, eSign, OCEN) **Case Study:** Account Aggregator Ecosystem (Sahamati, CAMS FinServ)	
2	**FinTech & Digital Lending in India** - FinTech Ecosystem in India (Payments, Lending, Insur-Tech, Wealth-Tech) - Digital Lending Models (P2P Lending, BNPL, Instant Loans via Apps) - RBI's Digital Lending Guidelines (2022) – Fair Practices, Data Privacy - Role of AI & ML in Credit Scoring (CRED, BharatPe, KreditBee) **Case Study:** RBI's Sandbox Approach for FinTech Innovation	12
3	**Blockchain, CBDC & Cryptocurrency in Banking:** - Blockchain Technology in Banking (Smart Contracts, Trade Finance) - Central Bank Digital Currency (CBDC) – Digital Rupee (e₹) Pilot by RBI - Cryptocurrency Regulations in India (Taxation, RBI's Stance) - Web3 & Decentralized Finance (DeFi) Opportunities in India **Case Study:** India's Digital Rupee (Wholesale & Retail Pilot Phases)	12
4	**Cybersecurity & Fraud Management in Digital Banking** - Cyber Threats in Digital Banking (Phishing, SIM Swap, UPI Frauds) - Importance of Cybersecurity in Digital Banking: Protecting sensitive data, preventing financial losses, maintaining customer trust, regulatory compliance. - RBI's Cyber Security Framework & Measures for Banks - Biometric Authentication, AI-based Fraud Detection, Behavioural biometrics & Anomaly Detection. - Data Privacy Laws (DPDP Act 2023, RBI's Data Localization Norms) **Case Study:** NPCI's Fraud Risk Management in UPI	12
5	**Future Trends & Innovations in Digital Banking** - Hyper-Personalization using AI & Big Data Analytics - Voice Banking & Conversational AI (Chatbots, Alexa Banking) - 5G & IoT in Banking (Smart ATMs, Wearable Payments) - Sustainable Banking & Green Digital Finance **Case Study:** Open Credit Enablement Network (OCEN)	12

Recommended Reading:

1. **Reference Books:**
   1. The Future of Finance: The Impact of Fintech, AI and Crypto on Financial Services.
   2. Digital payment, (Blueprint for Shining India), by Dr. Bishnu Prasad Patro.

3. IIBF's Digital Banking – Provides Practicing Bankers a Sound Foundation in the Principal Products such as Cards, ATM, Mobile & Internet Banking, POS, etc. along with Developments in Digital Technology by IIBF.
4. Core Banking: Technology and Solutions by B. M. Sharma.
5. Core Banking Solution Evaluation of Security and Controls, by Sriram M.

2. Assessment Techniques:
1. Class participation, discussions and attendance
2. MCQs / Quizzes
3. Assignment project for real-world application of the learnings