

Course Name: Certificate Course in Introduction of Fintech Development

Course Objective: This course offers an understanding of Introduction of Fintech Development, focusing on core technologies such as APIs, payment gateways, and digital onboarding. It explores real-world applications across crypto, wallets, trading platforms, insurtech, and lending. The course also examines India's fintech ecosystem, including UPI, RBI regulations, and digital infrastructure. Learners will gain the skills to analyse and engage with the rapidly evolving fintech landscape

Pre – Requisite: Graduate in any Discipline with IT professional experience in Digital Finance, Fintech Project Managers, People wanting to know and join the Fintech industry, Students and Researchers interested to know about Indian Fintech ecosystem.

Course Outcome: Upon successful completion, learners will gain a solid understanding of core fintech technologies and real-world applications across payments, crypto, lending, and insurtech. They will be able to analyse and design fintech solutions, navigate regulatory frameworks, and leverage India's digital ecosystem.

Course Duration: 80 Hrs (8 hours/ day for 2 Weeks)

Teaching Schema:

S. No.	Modules	Hours
1	FinTech an Overview	08
2	Block chain & Cryptocurrencies	16
3	Indian Fintech Ecosystem	24
4	Applications in Fintech	16
5	Introduction to International Trade Finance & Services	08
6	Case Study & Project	08
	Total	80

Detailed Course Content

FinTech an Overview

- What is FinTech
- History of FinTech
- Open Banking
- Problems solved by FinTech
- Whiteboard - FinTech Technology
- Fintech Applications and Features
- FinTech Business Models
- Challenges with FinTech
- Risk and Risk Management
- Compliance Requirements
- Technology Used (Blockchain, AI, etc)
- Emerging Sectors in FinTech

Block chain & Cryptocurrencies

- Cryptographic Ciphers
- Hash functions

- Digital Signature
- Public Key Encryption Tools and Performance
- Applications of Public Key Cryptography
- Blockchain Concept
- Bitcoin History
- Bitcoin Transaction

Indian Fintech Ecosystem

- Indian Fintech Introduction
- Fintech Ecosystem Overview
- What is India Stack?
- India Stack Layers
- Aadhaar, Architecture, authentication and e-KYC
- Aadhaar, Authentication Flow Architecture
- PCI DSS (Payment Card Industry Data Security Standard)
- Importance aspects of digital payments

- UPI
- Aadhaar Payment Bridge System (APBS)
- National Electronic Toll Collection NETC in India Fastag
- CTS Cheque Truncation System
- NFS National Financial Switch ATM
- Aadhaar enabled Payment System AePS
- Digital payments
- UPI, advanced payment methods for feature phone users
- Bharat Bill Payment System BBPS (Bharat Connect) what it is and how it works
- QR Code based payments
- Digital KYC e-KYC and Video KYC process and guidelines

Applications in Fintech

- Introduction to InsurTech
- Emerging Technologies: AI & Machine Learning

- Classifications of InsurTech Companies
- Investment & Market Size of the InsurTech Industry
- Understand advanced AI/ML methodologies for financial analytics.
- Use Cases for AI in FinTech
- The Future of AI in Robo-Advice
- Machine Learning in FinTech

Introduction to International Trade Finance & Services

- Trade Environment
- Payment Options
- Financial Document
- Commercial Document
- Trade Finance
- Risk Management
- Compliance Environment
- Pricing Guidelines

Case Study & Project
