A Joint Programme of

INSTITUTE FOR DEVELOPMENT AND RESEARCH IN BANKING TECHNOLOGY
IDRBT
Explore Enable Excel
1996
Estd. by Reserve Bank of India

&

NPCI
भारतीय राष्ट्रीय भुगतान निगम
NATIONAL PAYMENTS CORPORATION OF INDIA

SECURITY, SCALE AND ACCESS FOR DIGITAL PAYMENTS

DECEMBER 15 - 17, 2025

Programme Coordinator: Dr. Abhishek Thakur

Introduction

The Institute for Development and Research in Banking Technology (IDRBT) and the National Payments Corporation in India (NPCI), jointly, bring a very unique learning opportunity for all players and partners in the Indian Banking and Financial Sector. This tailor-made programme aims to enable a strong foundation and build resilience in the Indian Payment Ecosystem by bringing together Banking and FinTech professionals along with external partners such as TPAPs, ASPs, and TSPs.

Key Objectives

- Provide a strong foundation in digital security and cybersecurity best practices
- Equip participants with fraud detection and prevention tools tailored to the banking and financial sector
- Deepen knowledge of NPCI's digital payment products and their integration into the broader financial ecosystem
- Train on security techniques and cutting-edge tools to defend against evolving cyber risks
- Focus on building organizational resilience in the face of cyber-attacks, ensuring continuity and recovery.

Target Participants

Banking and FinTech professionals from TPAPs, ASPs, TSPs, Banks and Financial Institutions, including:

- IT, Risk and Information Security Professionals, Technical Support staff, and Incident Response & SOC teams.
- Professionals responsible for managing Fraud Risk, Compliance, and Fraud Detection.
- Those working with financial institutions on Payment Integrations and Cybersecurity Solutions.
- Decision-makers who oversee Digital Security Strategies and Responses.

Course Contents

Foundation of Digital Security & Cyber Risk Management

- Digital Security Principles.
- Phishing, Ransomware, DDoS, Insider Threats.
- Confidentiality, Integrity, and Availability.
- Hackers, Cyber-criminals, Hacktivists, and Nation-State Actors.
- Establishing Policies, Frameworks, and Standards.
- GDPR, CCPA, RBI Cybersecurity Framework for Banks

Basics of Fraud Risk Management in Digital Banking

- Fraud Risk Management in Banking
- Types of Digital Payment Fraud
- Fraud Risk Assessment Tools and Techniques.
- Fraud Prevention Strategies
- Case Studies of Digital Fraud Incidents in Banking.
- Regulatory Expectations for Fraud Prevention

Introduction to NPCI Products and Their Impact on the Ecosystem

- Unified Payments Interface
- National Financial Switch
- Bharat Bill Payment System
- Immediate Payment Service
- Aadhaar-enabled Payment System
- RuPay Cards

Advanced Cybersecurity, Cutting-edge Security Tools, and Fraud Prevention

- Security Operation Center and it's Best Practices
- Real-time Monitoring and Threat Detection (SIEM)
- Multi-Factor Authentication
- Encryption & Tokenization
- Threat Intelligence.
- Blockchain and Cyber Security
- Zero Trust Security Models

Cutting-Edge Security Measures and Cyber Threat Intelligence

- Advanced Persistent Threats: Detection and Defense Strategies.
- Ransomware Mitigation Techniques and Recovery.
- Using Data Analytics to Predict and Identify Attacks.
- Cloud Security and Financial Data Protection.
- Security for Mobile Banking Applications and Payments.
- Artificial Intelligence in Cybersecurity

Building Cyber Resilience in the Financial Sector

- Cyber Resilience
- Business Continuity Planning and Disaster Recovery
- Incident Response
- Cybersecurity Maturity Models
- Role of Red Teaming and Penetration Testing in Resilience.
- Collaborative Defense

Cyber Resilience, Compliance, and the Future of Payments

- Regulatory Frameworks

- Legal Considerations
- Compliance Audits
- Developing a Compliance Strategy for Digital Banking Systems.

Emerging Technologies and the Future of Digital Payments

- Digital Currencies and Central Bank Digital Currencies
- Artificial Intelligence in Fraud Detection and Risk Mitigation.
- Biometric Authentication in Payments.
- Security Implications of 5G for Mobile Banking.
- Smart Contracts and Blockchain Security.

Programme Coordinator

Dr. Abhishek Thakur, CTO & Asst. Professor. e-mail: abhishekt@idrbt.ac.in.

Accommodation

Participants will be provided Air Conditioned Single Occupancy accommodation at IDRBT, Hyderabad, with all cafeteria facilities. The Participants can check-in on the evening of the day before the commencement of the programme and can check-out after completion of the programme on the same day (or) in the morning of the next day of the programme.

Fee Details

Rs. 45, 000/- + Applicable GST per participant.

The fees for our programmes can be remitted through NEFT and the bank account details for fee payment are here under:

Account Name	: IDRBT
Bank	: Axis Bank Limited
Branch	: Humayun Nagar (Mehdipatnam Ring Road) Branch,Hyderabad
Account Number	: 426010100018823
IFSC Code	: UTIB0000426
GSTIN	: 36AAAAI0204K1Z4.

Nominations

Nominations may please be sent to us latest by **December 01, 2025** by email to ***hunar@idrbt.ac.in.*** Please note that no nominations will be accepted after this date. This measure is envisaged to further improve the quality and learning outcomes of the programme based on participants' profile and requirements.

While nominating, please provide the details of the participants (Name, Designation, Bank, Mobile No / Phone No., email address) along with the nominating authority details (Name, Designation, Bank, Mobile No / Phone No., email address, Fees billing address, GST No. of the bank).

Contact Us

Please contact our Programme Office for organising Customised Programmes and/or any other queries related to programmes at ***hunar@idrbt.ac.in*** or call us on +914023294121/61/64/65.

Forthcoming Programmes of December 2025

S. No.	Programme	Date	Coordinator
1.	IT Supply Chain Risk Management	01 - 03	Dr. N. P. Dhavale
2.	Application Security & Dev-Sec-Ops	01 - 05	Dr. Abhishek Thakur Dr. Dipanjan Roy
3.	Operational Risk Management, Measures and Compliance for Banks	03 - 05	Dr. V. N. Sastry
4.	Emerging Payment & Lending Systems	08 - 12	Dr. M.V.N.K. Prasad Dr. Susmita Mandal
5.	Data Center Management - IT & Non IT	08 - 12	Dr. Abhishek Thakur
6.	Quantum Computing	10 - 12	Dr. P. Syam Kumar
7.	Security, Scale and Access for Digital Payments	15 - 17	Dr. Abhishek Thakur
8.	Financial Forecasting with AI/ML	15 - 19	Dr. V. Ravi & Dr. Mridula Verma
9.	Micro Services - Scaling IT Applications	17 - 19	Dr. V. Radha Dr. N P Dhavale

Please visit our website for more details on programmes at
https://www.idrbt.ac.in/executive-development-programmes/