



# Institute for Development and Research in Banking Technology

(Established by Reserve Bank of India)

Castle Hills, Road No. 1, Masab Tank, Hyderabad-57, India.

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e-Programme on

## MOBILE BANKING, SOCIAL MEDIA BANKING AND MOBILE APP SECURITY TESTING

March 21 - 25, 2022

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### Introduction

This programme focuses on the recent developments in Mobile Technologies and Mobile Banking Regulations. How Banks can use the various Mobile Communication channels such as WIFI, 5G etc. would be discussed. How Social Media, where most of the people are hooked to, can be leveraged by Banks would be analysed. Security aspects which are most important for Mobile Banking Services, APIs, Mobile Wallets etc. would be discussed. Multiple language support, localization and usability aspects would be discussed. Mobile Security and Mobile App Security testing Approach would be presented.

### Objectives

- To learn the recent developments in Mobile Technology, Mobile Banking and Mobile Payments.
- To learn the Standards and Regulations of Wireless, Sensor and Mobile Service for effective Mobile Banking and Mobile Payments.
- To know how to leverage the Social Media for greater outreach, marketing and customized Banking Services.
- To learn about the various security threats of mobile and social media banking and procedure of mobile app security testing.

### Contents

- Developments in Mobile Technology, Mobile Banking and Mobile Payments.
- Mobile Communication Channels
  - Long Range - SMS, USSD, GPRS, Voice
  - Short Range - Wi-Fi, BT, NFC, BLE, IR
- Mobile Payments Modes – IMPS, AEPS, UPI, NEFT
- Mobile Banking Application and Mobile Wallet Issues
- APIs, User Interfaces, Multi-lingual and location based services
- Mobile Security Threats and Security Testing of Mobile Banking Apps.
- Procedure of Mobile Forensics.
- Social Media: Types, Issues and how Banks can leverage.
- Case study

### Mode of Teaching

Online teaching plus learning inputs through reading material, videos, webinars, assignments, quizzes, online interactions and clarifications. Each e-Programme will have four live webinars and course material will be made available in advance for study.

## Who Can Participate?

Officers handling any of the Mobile Banking, Mobile Payments, Mobile Wallets, e-Banking, delivery channels, Mobile app and API testing, Mobile security and Social Media.

## End Use:

- Learning recent developments in Mobile Banking and Social Media would help to improve Mobile Banking Services.
- Exposure to Mobile Security Testing would help to overcome Security Threats and create awareness.
- Participants would be able to explore emerging mobile communication channels to offer mobile banking services to all categories of mobile users in a customized way.

## Programme Coordinators:

**Dr. V. N. Sastry**, Professor, IDRBT; e-mail: [vnsastry@idrbt.ac.in](mailto:vnsastry@idrbt.ac.in)

## Fees:

### **For Indian Participants**

- RRBs & Coop Banks: Rs. 17,700/- (Rs. 15,000/- + 18% GST)
- All Other Banks & Financial Institutions: Rs. 23,600/- (Rs. 20,000/- + 18% GST)

### **For International participants**

- US \$ 310 (per participant, All inclusive)

## Bank Account Details for Remittance of Fees

The fees for this e-programme can be remitted to the following accounts:

### **For Indian Participants**

Account Name : IDRBT  
Bank & Branch : Axis Bank Limited, Humayun Nagar, Mehdiapatnam, Hyderabad  
Account No. : 426010100018823  
MICR Code : 500211012  
IFSC Code : UTIB0000426

### **For International participants**

Receiver's Correspondent Bank : JP Morgan Chase, New York, USA  
Swift Code : CHASUS33XXX  
Fed Wire Routing Number : ABA 021000021  
Beneficiary Bank & Branch : Axis Bank Ltd., Mumbai, India  
Account Number : 0011407376  
Beneficiary Bank Swift Code : AXISINBB

### **Ultimate Beneficiary**

Account Name : IDRBT  
Customer ID : 030021632  
Account No. : 426010100018823  
Bank & Branch : Axis Bank Ltd., Jubilee Hills, Hyderabad, India. (AXISINBB030)

## Nominations

Banks may nominate any number of participants to these e-Programmes, which may be accepted on a first-cum-first-served basis. While nominating, please provide the details of the participants (Name, Designation, Bank, Mobile No/Phone No, email address, fees billing address, GST No. of the Bank).

Apart from nominations by banks, staff members of banks can self-nominate themselves for these e-Programmes by providing their employee credentials and paying the programme fee latest by **March 18, 2021**.

## How to Register

The nominations for these e-Programmes, and queries if any, may please be sent to [eprogram@idrbt.ac.in](mailto:eprogram@idrbt.ac.in). Please visit <https://www.idrbt.ac.in/eprogrammes.html> for more details about these programmes.

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## e-Programmes in March 2022

S. No.	Name of the e-Programme	Date	e-Programme Coordinator	Last Date for Nomination
1	Workshop on Registration Authority Operations	01 – 04	Dr. N. P. Dhavale	<b>Feb 28, 2022</b>
2	AI/ML and Data Science for Banks	01 – 04	Dr. V. Ravi	<b>Feb 28, 2022</b>
3	Proactive Cyber Defence Strategies	07 – 10	Dr. Dipanjan Roy	<b>Mar 04, 2022</b>
4	Introduction to Authentication Techniques	08 – 11	Dr. M. V. N. K. Prasad & Dr. N. P. Dhavale	<b>Mar 07, 2022</b>
5	Recent Cyber Crimes and Defences	08 – 11	Dr. Rajarshi Pal	<b>Mar 07, 2022</b>
6	Data Centre Management	14 – 17	Dr. P. Syam Kumar	<b>Mar 11, 2022</b>
7	Emerging AI/ML Technologies	14 – 17	Dr. Mridula Verma	<b>Mar 11, 2022</b>
8	Big Data Analytics through Elastic Map Reducer for Banks	21 – 24	Dr. V. Ravi	<b>Mar 11, 2022</b>
9	Mobile Banking, Social Media Banking and Mobile Security Testing	21 – 25	Dr. V. N. Sastry	<b>Mar 18, 2022</b>
10	Targeted Attacks - Detecting in Early Stages	22 – 25	Dr. B. M. Mehtre	<b>Mar 21, 2022</b>
11	Secure Coding Practices	22 – 25	Dr. V. Radha	<b>Mar 21, 2022</b>
12	Re-envisioning Digital Banking Systems	28 – 31	Dr. Susmita Mandal	<b>Mar 25, 2022</b>

## e-Programmes in April 2022

S. No.	Name of the e-Programme	Date	e-Programme Coordinator	Last Date for Nomination
1	Distributed Ledger Technology and Banking Applications	04 – 07	Dr. N. V. Narendra Kumar	<b>Apr 01, 2022</b>
2	Technologies for Financial Inclusion	04 – 07	Dr. M.V.N.K. Prasad	<b>Apr 01, 2022</b>

3	Workshop on Registration Authority Operations	05 – 08	Dr. N. P. Dhavale	<b>Apr 04, 2022</b>
4	AI/ML for Cyber Security	05 – 08	Dr. Rajarshi Pal	<b>Apr 04, 2022</b>
5	Adversarial ML for Banks	18 – 21	Dr. V. Ravi	<b>Apr 13, 2022</b>
6	Smart Banking using AI and ML	18 – 21	Dr. Mridula Verma	<b>Apr 13, 2022</b>
7	Cyber Forensics for Cyber Defence - A Proactive Approach	19 – 22	Dr. B. M. Mehtre	<b>Apr 18, 2022</b>
8	API Development	19 – 22	Dr. V. Radha	<b>Apr 18, 2022</b>
9	Future of Innovative Smart Banking	25 – 28	Dr. Susmita Mandal	<b>Apr 22, 2022</b>
10	Security in Cloud Computing	26 – 29	Dr. P. Syam Kumar	<b>Apr 25, 2022</b>
11	Introduction to Hardware Security	26 – 29	Dr. Dipanjan Roy	<b>Apr 25, 2022</b>

### **e-Programmes in May 2022**

S. No.	Name of the e-Programme	Date	e-Programme Coordinator	Last Date for Nomination
1	Re-imagining customer engagement with conversational Chatbots	09 – 12	Dr. Mridula Verma	<b>May 06, 2022</b>
2	Introduction to Governance, Risks and Compliance	10 – 13	Dr. Abhishek Kumar Thakur	<b>May 09, 2022</b>
3	Continuous Security Validation	10 – 13	Dr. V. Radha	<b>May 09, 2022</b>
4	Secure Financial Infrastructure	10 – 13	Dr. Susmita Mandal	<b>May 09, 2022</b>
5	Cyber Security for Remote Working Scenario	17 – 20	Dr. Rajarshi Pal	<b>May 16, 2022</b>
6	Proactive Cyber Defence Strategies	17 – 20	Dr. Dipanjan Roy	<b>May 16, 2022</b>
7	Dark Web Monitoring for Threat Intelligence	17 – 20	Dr. B. M. Mehtre	<b>May 16, 2022</b>
8	Introduction to Authentication Techniques	23 – 26	Dr. M.V.N.K. Prasad Dr. N.P.Dhavale	<b>May 20, 2022</b>
9	Explainable AI for Banks	24 – 27	Dr. V. Ravi	<b>May 23, 2022</b>
10	Big Data and Cloud	24 – 27	Dr. P. Syam Kumar	<b>May 23, 2022</b>

### **e-Programmes in June 2022**

S. No.	Name of the e-Programme	Date	e-Programme Coordinator	Last Date for Nomination
1	Privacy Preserving Machine Learning for Banks	06 – 09	Dr. V. Ravi	<b>June 03, 2022</b>
2	Distributed Ledger Technology and Banking Applications	06 – 09	Dr. N. V. Narendra Kumar	<b>June 03, 2022</b>
3	5G Use Cases and IoT Applications for Banks	06 – 10	Dr. V. N. Sastry	<b>June 03, 2022</b>
4	Threats to Digital Payment Ecosystem	07 – 10	Dr. Susmita Mandal	<b>June 06, 2022</b>

5	Technologies for Financial Inclusion	07 – 10	Dr. M.V.N.K. Prasad	<b>June 06, 2022</b>
6	Emerging AI/ML Technologies	13 – 16	Dr. Mridula Verma	<b>June 10, 2022</b>
7	Workshop on Registration Authority Operations	14 – 17	Dr. N. P. Dhavale	<b>June 13, 2022</b>
8	Privacy and Security Risks in Machine Learning	14 – 17	Dr. Rajarshi Pal	<b>June 13, 2022</b>
9	RBI Guidelines on Cyber Security	20 – 23	Dr. Dipanjan Roy	<b>June 17, 2022</b>
10	Introduction to Containers	21 – 24	Dr. P. Syam Kumar	<b>June 20, 2022</b>
11	Targeted Attacks - Detecting in Early Stages	21 – 24	Dr. B. M. Mehtre	<b>June 20, 2022</b>
12	API Development	Jun 28 – Jul 01	Dr. V. Radha	<b>June 27, 2022</b>