

**Programme on**

# **MOBILE APPLICATION DEVELOPMENT AND SECURITY TESTING**

Coordinator: **Dr. V. N. Sastry**

**MARCH 18 - 22, 2024**  
**(Offline Mode)**



INSTITUTE FOR DEVELOPMENT AND RESEARCH IN  
BANKING TECHNOLOGY, HYDERABAD  
(ESTABLISHED BY RESERVE BANK OF INDIA)

## Introduction

Mobile Applications have become the primary interface for Banking Services to Customers. Since mobile technology in terms of mobile device, mobile communication and mobile services is fast changing, mobile subscriber base and banking transactions are increasing in fast pace, and number of security crimes are growing, it is necessary to redesign for enhanced user experience and continuously upgrade the security of mobile banking applications.

This programme focuses on the recent developments in Mobile Technology, Mobile Banking, Mobile Payments and Mobile Security. Mobile Application Design using Unified Modelling Language diagrams and Development on Android platform using Android studio would be covered with hands on exercises on activities, intents, broadcasts, database, web data retrieval etc. Development of APIs, multiple language support, localization and usability aspects would be discussed. Mobile App Security Testing would be covered using security testing tools. It would also cover on Mobile Forensics and i-OS Mobile App development.

## Objective

- ★ To learn about the mobile application development life cycle and design using UML diagrams.
- ★ To learn about the architectures of mobile operating systems, mobile browsers and API.
- ★ To learn with hands on mobile application development for Android platform
- ★ To learn about mobile application development on i-OS platform and cross platform development tools.
- ★ To do security testing of mobile applications for android / i-OS mobile platforms.

## Contents

- ★ Developments in Mobile Technology, Mobile Communication and Mobile Services
- ★ Mobile Banking, Mobile Payments ( IMPS, AEPS, UPI, NEFT ) and Mobile Wallets
- ★ APIs, User Interfaces, Multi-lingual and location based services
- ★ Android Architecture and Android Studio for Integrated Development Environment
- ★ Mobile Security Threats and Security Testing of Mobile Banking Apps.
- ★ Mobile Forensics and Social Media Banking
- ★ i-OS Software stack and Xcode IDE

## Who can Participate?

Officers from Banks and Financial Institutions managing Cyber Security / IT, etc.

## End Use

- ★ Learning recent developments in Mobile Technology, Mobile Communication, Mobile Banking, Mobile Payments, Mobile Wallets, Social Media and regulations would help to improve Mobile Banking Services.
- ★ Learning to draw UML diagrams would help to design banking services better. Learning on Mobile Security Testing would help to overcome Security Threats in Mobile Banking Services.
- ★ Participants would be able to understand and experience the development of mobile banking application in android and do security testing to enrich its security.

## Fee Details

### Domestic Participants from

- ★ RRBs & Coop. Banks: Rs. 59,000/- (Rs. 50,000/- + 18% GST)
- ★ All other Banks & Fis: Rs. 70,800/- (Rs. 60,000/- + 18% GST)

### Foreign Participants from

- ★ SAARC Countries: US\$ 1180/- (US\$ 1000/- + 18% GST)
- ★ All other Banks & Fis: US\$ 1770/- (US\$ 1500/- + 18% GST)

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 should be sent to us latest by **March 12, 2024** by email to [program@idrbt.ac.in](mailto:program@idrbt.ac.in).

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).

## Accommodation

Participants will be provided Air Conditioned Single Occupancy room at IDRBT, Hyderabad, with all cafeteria facilities. The Participants can check-in on the evening of one day before 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.

## Programmes Scheduled in March 2024

S. No.	Programme	Date	Coordinator
1	IT Operational Risk Management	04 - 06	Dr. N. P. Dhavale
2	API Security and Governance	04 - 06	Dr. V. Radha
3	End-to-End Implementation of AI/ML in Banking	11 - 15	Dr. V. Ravi
4	Information Systems Control and Audit	11 - 15	Dr. Dipanjan Roy
5	Innovation and Smart Banking	11 - 15	Dr. Susmita Mandal
6	Advance AI/ML for Cyber Security	11 - 15	Dr. Mridula Verma
7	Red Team & Blue Team Exercise	18 - 20	Dr. B. M. Mehtre
8	IT Governance Risk and Compliance	18 - 22	Dr. Abhishek Thakur
9	Emerging Trends in Cloud Computing	18 - 22	Dr. P. Syam Kumar
10	Mobile Application Development and Security Testing	18 - 22	Dr. V. N. Sastry

Please visit our website for more details at : <https://www.idrbt.ac.in/offline-programmes>.

## Contact Us

Please contact our Programme Office for organizing Customized Programmes and/or any other queries related to programmes at [program@idrbt.ac.in](mailto:program@idrbt.ac.in) or call us on 04023294121/22/24/25.



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