



# 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

## SECURE CODING PRACTICES

December 08 - 11, 2020

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### Introduction

With lots of digitization around, banks are under stress to open APIs, develop new applications for customers as well as employees around their core banking. Building new apps around core banking without proper understanding of security vulnerabilities like SQL Injection, Remote Code Execution etc might put the bank in higher risk zone. Whether the bank develops the application on its own or buys it, it is advisable for the banks to understand the security vulnerabilities arising from bad coding practices, how they manifest and what the remedial measures are. For majority of the attacks, bad programming is the sole source of problem. Security experts deploy remedial measures across the entire enterprise network stack right from Web application firewalls, to end-point security. It is like making the outer wall stronger to secure the weak inner applications. Majority of these solutions are not needed if the programs are written with security in mind.

### Objectives

- To bring awareness about secure coding practices.
- To discuss the remedial measures
- Automated testing of applications
- Code Scanning and Code Analysis.

### Contents

- **Webinar 1:** Input Validation (SQL injection, XSS, command injection, file inclusion vulnerabilities)
- **Webinar 2:** Authentication, Session management, and Access control
- **Webinar 3:** Cryptographic practices and communication security
- **Webinar 4:** Memory management and buffer overflow attack
- **Webinar 5:** API Security Practices

### 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?

Developers, Inspection officials as well as officials in IT and Information Security function involved in design, deployment and maintenance and security of information systems.

### End Use:

Participants would be able to appreciate the coding vulnerabilities and act accordingly to strengthen the applications and overall IT environment in all its dimensions: Data, Applications and Technologies.

### Programme Coordinator:

**Dr. V. Radha**, Associate Professor, IDRBT; e-mail: [vradha@idrbt.ac.in](mailto:vradha@idrbt.ac.in)

### Fees:

#### **For Indian Participants**

- RRBs & Coop Banks: Rs. 8,850/- (Rs. 7,500/- + 18% GST)
- All Other Banks & FI's: Rs. 11,800/- (Rs. 10,000/- + 18% GST)

#### **For International participants**

- US \$ 175 (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 **December 07, 2020**.

## 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> for more details about these programmes.

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### e-Programmes in December 2020

S. No.	Name of the e-Programme	Date	e-Programme Coordinator	Last Date for Nomination
1	Introduction to Doorstep Banking	01 - 04	Dr. M. V. N. K. Prasad	<b>Nov 30, 2020</b>
2	Fundamentals of Banking Malware	01 – 04	Dr. Dipanjan Roy	<b>Nov 30, 2020</b>
3	Secure Coding Practices	08 – 11	Dr. V. Radha	<b>Dec 07, 2020</b>
4	5G and Internet of Things (IoT) for Banks	08 – 11	Dr. V. N. Sastry	<b>Dec 07, 2020</b>
5	Fundamentals of Open Source Technologies	14 – 17	Dr. Mridula Verma	<b>Dec 13, 2020</b>
6	Basics of Software Defined Networks	15 – 18	Dr. N. P. Dhavale	<b>Dec 14, 2020</b>
7	Wireshark for Security Professionals	15 – 18	Dr. Rajarshi Pal	<b>Dec 14, 2020</b>
8	Introduction to Virtualization and Cloud Computing	21 – 24	Dr. P. Syam Kumar	<b>Dec 20, 2020</b>
9	Threats to Digital Payment Ecosystem	28 – 31	Dr. Susmita Mandal	<b>Dec 27, 2020</b>
10	Digital Forensics for Cyber Defence – A Proactive Approach	28 – 31	Dr. B. M. Mehtre	<b>Dec 27, 2020</b>