



Institute for Development and Research in Banking Technology

(Established by Reserve Bank of India)

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

e-Programme on

SECURE CODING PRACTICES

April 06 - 09, 2021

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

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 **April 05, 2021**.

How to Register

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

e-Programmes in April 2021

S. No.	Name of the e-Programme	Date	e-Programme Coordinator	Last Date for Nomination
1	Fundamentals of Open Source Technologies	05 – 08	Dr. Mridula Verma	Apr 04, 2021
2	Secure Coding Practices	06 – 09	Dr. V. Radha	Apr 05, 2021
3	Technologies for Financial Inclusion	06 – 09	Dr. M. V. N. K. Prasad	Apr 05, 2021
4	Data Centre Management	19 – 22	Dr. P. Syam Kumar	Apr 18, 2021
5	Fundamentals of Wi-Fi Security	20 – 23	Dr. N. P. Dhavale	Apr 19, 2021
6	5G and Internet of Things for Banks	20 – 23	Dr. V. N. Sastry	Apr 19, 2021
7	AI/ML for Cyber Security	26 – 29	Dr. Rajarshi Pal	Apr 25, 2021
8	Proactive Cyber Defence Strategies	27 – 30	Dr. Dipanjan Roy	Apr 26, 2021
9	Dark Web – Introduction to the Hidden side of Internet	27 – 30	Dr. B. M. Mehtre	Apr 26, 2021