



# 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

## API DEVELOPMENT

**JUNE 08 - 11, 2021**

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### Introduction

APIs are entry points or programming artefacts to access a business functionality. They help complete complex processes that are dependent on the business processes of other organisations. APIs are enablers of Straight through Processing, alleviating the need for cumbersome insecure file upload and download. Banks have been consuming the APIs

(Application Programming Interfaces) offered by agencies like AADHAR and NPCI. However, banks may have to open up their APIs such that other businesses can easily develop applications weaving their bank inside their business processes. Web services technology represents an important way for businesses to communicate with each other. While web services (REST) are programmatic interfaces, XML and JSON are the languages that define the data transmitted between the applications. This program focusses on how to design and deploy APIs using latest technologies available.

### Objectives

- To bring awareness about API development
- To discuss and demonstrate the simplicity and power of the technologies like XML, JSON, REST, etc. with hands-on labs/Demos.

### Contents

- SOA– Introduction
- Introduction to Middleware
- Mark-up Languages – Introduction
- XML, XSD, XBRL etc
- JSON
- Designing SOAP based APIs
- Designing REST based APIs
- API Life Cycle
- API Management
- API Security

### 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 as well as officers in IT function involved in design, deployment and maintenance of information systems

## End Use:

Participants would be able to appreciate the power of API; can ensure better design, development, management and seamless integration of APIs, into internal and external business processes.

## 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 **JUNE 07, 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> for more details about these programmes.

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### e-Programmes in JUNE 2021

S. No.	Name of the e-Programme	Date	e-Programme Coordinator	Last Date for Nomination
1	Technologies for Financial Inclusion	01 - 04	Dr. M. V. N. K. Prasad	<b>May 31, 2021</b>
2	RBI Guidelines on Cyber Security	01 – 04	Dr. Dipanjan Roy	<b>May 31, 2021</b>
3	Workshop on RA Operations	08 – 11	Dr. N. P. Dhavale	<b>Jun 07, 2021</b>
4	API Development	08 – 11	Dr. V. Radha	<b>Jun 07, 2021</b>
5	AI/ML and Data Science in Banking	15 – 18	Dr. V. Ravi	<b>Jun 14, 2021</b>
6	Privacy and Security Risks in Machine Learning	15 – 18	Dr. Rajarshi Pal	<b>Jun 14, 2021</b>
7	5G and Internet of Things for Banks	21 – 24	Dr. V.N. Sastry	<b>Jun 20, 2021</b>
8	Virtualization and Cloud Computing	22 – 25	Dr. P. Syam Kumar	<b>Jun 21, 2021</b>
9	Insider Threats – Monitoring, Analysis and Detection	22 – 25	Dr. B. M. Mehtre	<b>Jun 21, 2021</b>
10	Re-imagining Customer Engagement with Conversational Chatbots	June 29 – July 02	Dr. Rajarshi Pal	<b>Jun 28, 2021</b>
11	Re-envisioning Digital Banking Systems	June 29 – July 02	Dr. Susmita Mandal	<b>Jun 28, 2021</b>