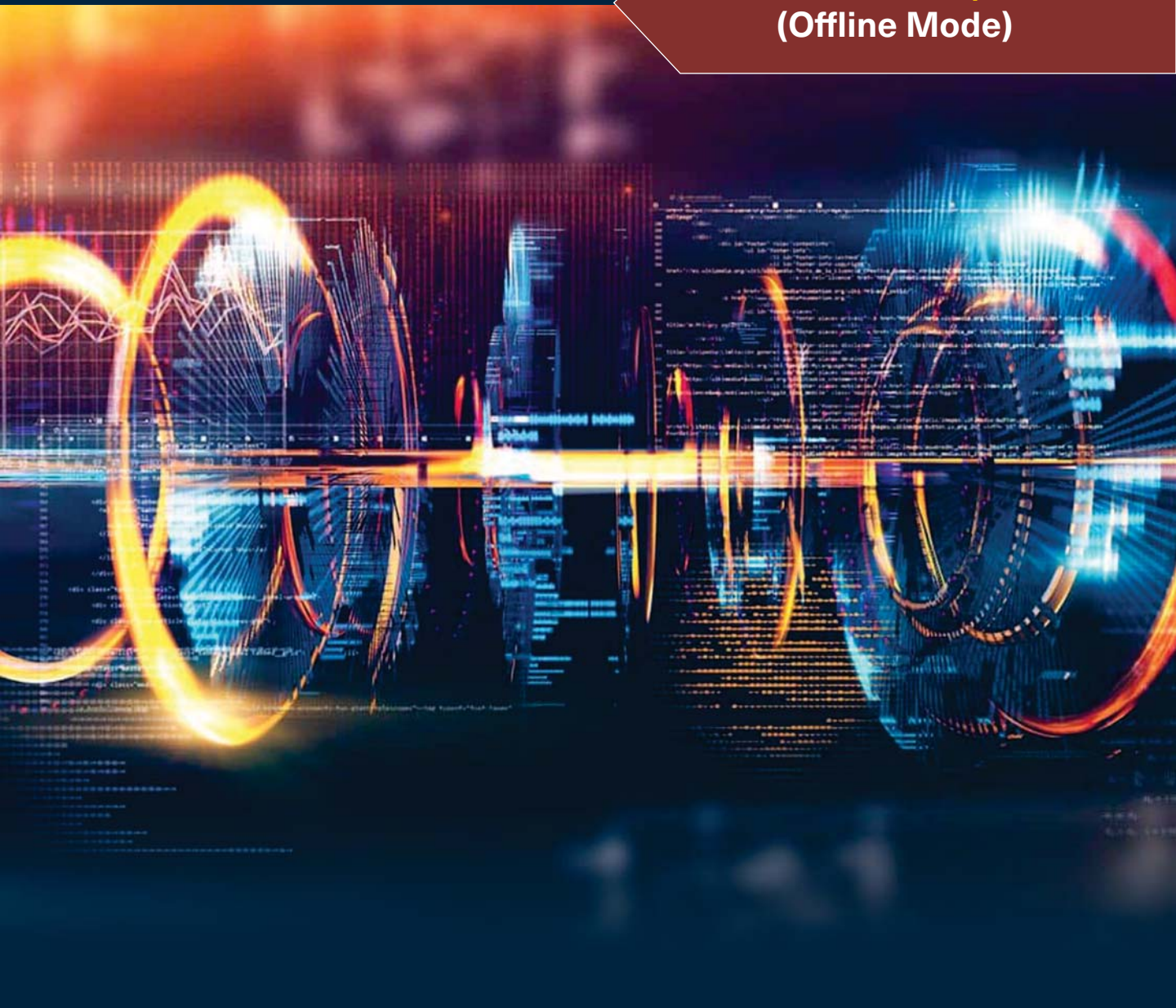


Programme on

POST-QUANTUM SECURITY

Programme Coordinator: [Dr. P. Syam Kumar](#)

MARCH 24 - 26, 2025
(Offline Mode)



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

Introduction

As we already know that rapid development of large quantum computers poses threat to most popular public-key cryptosystems such as RSA and ECC), which are presently using in banking sector and Internet today. National Institute of Standards and Technology (NIST) and the European Telecommunications Standards Institute (ETSI) have already started standardizing Post-quantum cryptography(PQC) and deploying cryptosystems that are secure against quantum attacks and quantum secure. Post-quantum security refers to the develop cryptographic algorithms that are resistant to attacks on quantum computers, to keep information assets secure even after a large-scale quantum computer has been built. Hence, it necessary to understand the what is post-quantum security and how it is useful in banking sector before quantum computer arrives.

Objective

This program aims to offer a platform for the participants learn about quantum computers and post-quantum security algorithms and their applicability in banking sector.

Contents

- ★ Introduction to Quantum Computers
- ★ Quantum Algorithms
- ★ Application of Quantum Computing
- ★ Overview of Post-Quantum Cryptography
- ★ NIST Standardization on PQC
- ★ Post Quantum PKI
- ★ Post Quantum Public Key Encryption
- ★ Post Quantum Key Exchange
- ★ Post-quantum Blockchain
- ★ Post Quantum Security for Cloud Computing

Who can Participate?

Officers of Banks / Financial Institutions / Insurance Sector who work in Development team including developers, testers, architects, DevOps engineer, managers, and support engineers. Level: Scale I to IV

End Use

After completion of this program, the participants will understand post-quantum cryptography algorithms and how to implement these techniques in banking sector to secure transactions, information and data.

Fee Details

Domestic Participants from

- ★ RRBs & Coop. Banks: Rs. 44,840/- (Rs. 38,000/- + 18% GST)
- ★ All other Banks & Fis: Rs. 53,100/- (Rs. 45,000/- + 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 10, 2025** by email to 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.

Contact Us

Please contact our Programme Office for organizing Customized Programmes and/or any other queries related to programmes at program@idrbt.ac.in or call us on +914023294121/22/24/25.

Programmes Scheduled in March 2025

S. No.	Programme	Date	Coordinator
1	Digital Payment Security Controls	03 - 05	Dr. N. P. Dhavale
2	Cyber Defence	03 - 07	Dr. Rajarshi Pal
3	Fintech and Financial Inclusion	10 - 12	Dr. M. V. N. K. Prasad
4	Information Systems Audit and Control	10 - 14	Dr. Dipanjan Roy
5	Workshop on Registration Authority Operations	17 - 18	Dr. N. P. Dhavale
6	Advance AI/ML for Cyber Security	17 - 19	Dr. Mridula Verma
7	Post Quantum Security	24 - 26	Dr. P. Syam Kumar

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



Institute for Development and Research in Banking Technology
Castle Hills, Road No. 1, Masab Tank, Hyderabad - 500 057, India.

Phone: +91-40-2329 4121 / 22 / 24 / 25

Web: www.idrbt.ac.in E-mail: program@idrbt.ac.in