



IIIT BHUBANESWAR

Evolution of Cybersecurity: From Traditional Models to Quantum-Ready Cryptography

Faculty Updation Program

PROGRAM CONTENTS

- 🛡️ Blockchain and Cryptographic Applications
- 🛡️ Secure Cloud, IoT, and Edge Computing Systems
- 🛡️ AI and Machine Learning in Cyber Attack Detection
- 🛡️ Zero Trust Architecture and Modern Network Security
- 🛡️ Post-Quantum Cryptography and Quantum-Resistant Algorithms



📅 DATE

10th - 14th Feb 2026

🕒 TIME

9:00 AM

📍 VENUE

IIIT BHUBANESWAR

REGISTER NOW



For any query:

📞 Jagannath Paramguru (+91 7978919993)

✉️ isea3@iiit-bh.ac.in

📄 **Registration is based on first come-first serve rule**

About the Event

The rapid evolution of digital technologies has transformed the cybersecurity landscape, introducing complex threats that demand advanced and future-ready defense mechanisms. This Faculty Updation Program (FUP) on “Evolution of Cybersecurity: From Traditional Models to Post Quantum Cryptography” is designed to provide participants with a comprehensive understanding of modern cybersecurity paradigms and emerging security technologies.

The program explores the transition from conventional security models to advanced approaches such as blockchain-based cryptographic applications, secure cloud, IoT, and edge computing systems, and the growing role of artificial intelligence and machine learning in cyber-attack detection and prevention. Emphasis is also placed on Zero Trust Architecture, highlighting modern network security principles that address today's highly distributed and dynamic computing environments.

A key focus of the FUP is Post-Quantum Cryptography and Quantum-Resistant Algorithms, preparing participants for the security challenges posed by quantum computing and ensuring long-term data confidentiality and integrity. Through expert lectures, case studies, and practical insights, the program aims to enhance faculty members' knowledge, teaching capabilities, and research orientation in the rapidly evolving field of cybersecurity.

This FDP will equip participants with the conceptual clarity and technical awareness required to address contemporary and future cybersecurity challenges in academia, industry, and research.

Targeted Participants

Faculty members from CSE, IT, ECE, EE, and allied disciplines

Research scholars and doctoral students

Industry professionals (limited seats, optional)

KEYNOTE SPEAKERS

EMINENT SPEAKERS FROM IITS, NITS, ISI, INDUSTRIES
AND OTHER REPUTED INSTITUTES.

Patron

DR. ASHISH GHOSH

(Director of IIIT Bhubaneswar)

Chairman

DR. DEBASISH JENA

(Dean(Placement & Corporate Relation))

Course Content

This workshop is intended to cover the following topics:

- **Blockchain and Cryptographic Applications**
- **Secure Cloud, IoT, and Edge Computing Systems**
- **AI and Machine Learning in Cyber Attack Detection**
- **Zero Trust Architecture and Modern Network Security**
- **Post-Quantum Cryptography and Quantum-Resistant Algorithms**



**INTERNATIONAL INSTITUTE OF
INFORMATION TECHNOLOGY,
BHUBANESWAR**

**Department of Computer Science
and Engineering**

Organizing

**One -Week Faculty Updation
Programme**

On

**Evolution of Cybersecurity: From
Traditional Models to Quantum-
Ready Cryptography**



10th - 14th February 2026

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About the International Institute of Information Technology, Bhubaneswar

The International Institute of Information Technology, Bhubaneswar (IIIT-Bhubaneswar) is a premier institute dedicated to excellence in teaching, research, and innovation in the field of information technology and related disciplines. Established in 2006, the institute operates under the administrative control of the Department of Electronics and Information Technology, Government of Odisha. Its campus is located in the serene and vibrant surroundings of Gothapatna, Bhubaneswar, Odisha.

IIIT Bhubaneswar aims to foster academic excellence, encourage cutting-edge research, and promote innovation to contribute meaningfully to the growth of society and industry. The institute maintains strong ties with leading IT and core engineering companies. Its placement cell facilitates excellent placement opportunities, with students securing positions in top companies like Google, Amazon, TCS, Infosys, IBM, and Microsoft.

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About Computer Science and Engineering

Computer Science and Engineering (CSE) at IIIT Bhubaneswar is one of the most popular courses offered by the Institute. The Department has a strong faculty team with extensive academic and research experience from premier Institutes. The department offers graduate undergraduate, postgraduate, doctoral and post doctoral program in Computer Science and Engineering.

Important Dates

Registration ends	8 th February 2026
FDP Dates	10 th Feb 2026 - 14 th Feb 2026

Registration Form

To complete online registration, the participants need to fill out the following form:



Registration Details

- Shortlisted candidates will receive confirmation mail.
- Program schedule will be shared one week prior to the program.
- Registration is based on First-come-serve rule

Registration Info.	
Accommodation	Free
Fooding charges	Free
Travelling Cost	By your own
Registration Cost	Nil

Objective Of The Program

The program aims to:

- To provide an overview of the evolution of cybersecurity from traditional models to post-quantum cryptography.
- To enhance understanding of security challenges in cloud, IoT, and edge computing environments.
- To equip faculty members with knowledge to address future cybersecurity and post-quantum security challenges in teaching and research.

Contact Us

Dr. Srichandan Sobhanayak (Program Coordinator)	mail : isea3@iiit-bh.ac.in
Dr. Tushar Ranjan Sahoo (Program Coordinator)	Mob - 8018165992 mail : tushar@iiit-bh.ac.in
Utkalika Satapathy (Program Coordinator)	mail : utkalika@iiit-bh.ac.in
Jagannath Paramguru (Contact Person FUP)	Mob - +91 7978919993