# Faculty Development Programme (FDP) on
# ADVANCED TOPICS IN FINTECH SECURITY

**Organised by**
**Department of IT, NIT Raipur & Department of CSE, IIT Bhilai**

**Sponsored by**
**Ministry of Electronics and Information Technology (MeitY), GoI**
**Through**
**ISEA-III Initiative**

**17-21 MARCH 2025**

## About FDP

The financial landscape is undergoing a radical transformation driven by fintech innovations, which are redefining how transactions are conducted, managed, and secured. Emerging technologies such as blockchain, artificial intelligence (AI), digital payment platforms, and decentralized finance (DeFi) are reshaping traditional banking, investment, and payment systems. However, this rapid evolution brings challenges, particularly in cybersecurity, regulatory compliance, and trust. Smart integration of advanced technologies and robust security paradigms is critical to ensuring seamless, transparent, and secure financial ecosystems. This program explores the intersection of cutting-edge fintech solutions and security frameworks, addressing how they enable efficient, inclusive, and resilient financial services while mitigating risks like fraud, data breaches, and systemic vulnerabilities.

## Major Course Content:

1. Introduction to Fintech and its Evolution
2. Digital Payments and Mobile Wallets
3. Blockchain and Cryptocurrencies in Financial Transactions
4. Artificial Intelligence in Fintech Applications
5. Cybersecurity Challenges in Fintech
6. Fraud Detection and Prevention Mechanisms
7. Biometric Authentication and Secure Transactions
8. Big Data and Predictive Analytics in Financial Services
9. Decentralized Finance (De-Fi) and Smart Contracts
10. Risk Management and Compliance in Digital Transactions
11. Cloud Computing and Financial Data Security
12. Cross-border Payments, Credit Scoring & Loan Processing
13. The Future of Fintech: Opportunities and Challenges

## Faculty conducting this programme

The program will be conducted by the faculty members from NIT Raipur and IIT Bhilai; Academicians in the concerned field from IITs/NITs/IIITs are invited to deliver lectures in the program. Speakers from industries are also expected to deliver as part of the course

## Target Participants:

research scholars and faculties of Engineering and basic sciences of educational institutes and employees of industries.

## About NIT Raipur

The National Institute of Technology Raipur, situated in the capital of Chhattisgarh, has proven to be "avant-garde" in the field of science and technology over the past few decades in this region. With sweet memory of the foundation ceremony by our president, Hon'ble Dr. Rajendra Prasad, on 14th September 1956, the institute started with two departments, namely Metallurgical and Mining Engineering. Later, our Prime Minister, Hon'ble Pt, inaugurated the Institute building. Jawahar Lal Nehru, on 14th March 1963. From 1st December 2005, the institute has become the National Institute of Technology. It is well connected with Mumbai, Delhi, and all metro cities by regular flights and is on the main Howrah-Mumbai railway route. The institute is 5 km from the Raipur railway station and 18 km from the airport on NH-6, the Great Eastern Road.

## About IIT Bhilai

Indian Institute of Technology (IIT) Bhilai was established in the state of Chhattisgarh by the Ministry of Education in the year 2016. IIT Bhilai is presently housed in its permanent campus at Kutelabhata, Bhilai, Chhattisgarh. IIT Bhilai offers Bachelor of Technology (BTech), Master of Technology (MTech), Master of Science (MSc) and Doctoral programs (PhD) in various departments. The Institute made its modest start with the introduction of BTech program in August 2016.

## Fee Particulates

### Registration Deadline:
### 13 March 2025

**Venue: Department of IT, NIT Raipur**
**Registration Fee: Free**

Selection Criteria: The selection will be made on a first-come–first-serve basis to a preferable maximum number of 50 (fifty). Candidates will be issued satisfactory certificates on successful completion of the course.

**QR-code-based registration**

**SCAN ME**

**For URL-based registration**

https://faas.isea.app/formview/FDP20250305FAJMtext

## Coordinators

**Dr. Chandrashekar Jatoth**
Designation: Assistant Professor
Department of IT, NIT Raipur
Email: jchandrashekar.it@nitrr.ac.in
Contact No: 8897741409

**Dr. Rakesh Tripathi**
Designation: Associate Professor
Department of IT, NIT Raipur
Email: rtripathi.it@nitrr.ac.in
Contact No: 9407714701

**Dr. Souradyuti Paul**
Designation: HoD & Associate Professor
Department of CSE, IIT Bhilai
Email: souradyuti@iitbhilai.ac.in
Contact No: 7712551300