



### About NIT Raipur

**National Institute of Technology Raipur** situated in the capital of Chhattisgarh, has proven to be 'avant- grade' in the field of science and technology over the past few decades in this region. With a sweet memory of the foundation ceremony by the President Hon'ble Dr. Rajendra Prasad on 14th September 1956, the Institute started with two departments namely Metallurgical and Mining Engineering. Later the inauguration of the Institute building was done by the Prime Minister Hon'ble Pt. Jawahar Lal Nehru on 14th March 1963. From 1<sup>st</sup> December 2005, the Institute has become the National Institute of Technology Raipur. Presently NIT Raipur offers 12 undergraduate and 6 postgraduate courses. The Institute offers facilities for Ph.D. and also undertakes R & D activities, provides testing, consultancy and other extension services including continuing education to the industry through the Industry Institute Interaction cell and the placement of the student through the Department of Training & Placement.

### Brief Overview of the FDP

Blockchain is a unique technology and a fundamental concept of computer science. Moreover, Blockchain has proven itself to be instrumental for many applications, ranging from financial to governmental services. In many ways, this transformed applications and development to rethinking how

information is distributed and processed over its infrastructure. While the majority of these applications are in the financial domain, key opportunities lie in connecting infrastructural services, such as Cloud, Fog, and Edge computing with blockchain to create and provide new applications and services. As in smart cities, users are more aware of the smart technologies including IoT and cloud technology. A decentralized storage system is required to maintain transparency and trust between the service providers and consumers in the smart cities. The following is a list of some of the many applications that could be discussed in this workshop for the smart-cities. The following is a list of some of the many agendas of the FDP: Applications in metered services, Applications with smart vehicles and transportations, Security Privacy and transparency issues in these services.

With the above important aspects, it is being proposed to conduct an AICTE Training and Learning (ATAL) Academy sponsored FDP to disseminate the cyber security risks in smart cities and enlisting the possible solutions for the same.

### Objectives of the FDP

To promote interaction with the scientific communities and provide awareness and training for blockchain applications in the smart cities, the Hybrid FDPs will be organized at NIT Raipur during September 19-30, 2022. The program will enhance the different prospects of Blockchain and related techniques for smart cities.

No prerequisite is envisaged for participants. In each topic, attempts will be made to build up fundamental concepts followed by research directions for applications of Blockchain in smart cities.

## Call for Participation

### Faculty Development Program

on

### Blockchain in Smart City: Emerging Technologies for the Next Decade and Beyond

(September 19-30, 2022)

Jointly organized by

Department of IT

and

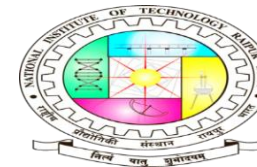
Department of CSE

National Institute of Technology Raipur

&

ATAL Academy

AICTE, New Delhi



Department of CSE & IT

National Institute of Technology Raipur

G.E. Road, Raipur - 492010, India

## Resource Persons

Eminent speakers from IITs, & NITs will deliver the expert lectures.

## Participants

Participants will be selected among faculty members, PG students, PhD scholars & researchers, and practicing engineers from Academia, Government and AICTE approved Non-Government Organizations through ATAL Academy portal.

## Last Date of Registration

For the last date of application, please visit AICTE ATAL Academy portal:

<https://atalacademy.aicte-india.org/signup>

## Contact Person

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## Mode of FDP

The First week of FDP will be organized **online** through Google Meet/Team link. The link will be shared with the selected participants well in advance.

Second Week of FDP will be **Offline** including Institute Visit/Industry Visit/Lab Experiment

## Organizing Committee Chief Patron

**Dr. A.M. Rawani**

Director, NIT Raipur

## Patron

**Dr. Prabhat Diwan**

Dean (R&C), NIT Raipur

## Program Coordinator

**Dr. Sudhakar Pandey**

Associate Professor, NIT Raipur

## Program Co-coordinator

**Dr. Preeti Chandrakar**

Assistant Professor, NIT Raipur

## Convener

**Dr. R. Tripathi**

Assistant Professor, NIT Raipur

**Dr. Dilip Singh Sisodia**

Assistant Professor, NIT Raipur

## Members

**Dr. N.K. Nagwani**

**Dr. P. Singh**

**Dr. M. Vardhan**

**Dr. Akanksha Sharaff**

**Dr. Veena Anand**

**Dr. Tirath Sahu**

**Dr. Pawan Kumar Mishra**

**Dr. Mridu Sahu**

**Dr. K. Jairam Naik**

## Registration Procedure (Last Date 5<sup>th</sup> Sept. 2022)

- There is **no registration fee**.
- Participant needs to apply through AICTE- ATAL portal on or before the last date of registration mentioned in the AICTE ATAL portal.
- To complete your registration in ATAL FDP portal, follow the following steps:
  - Visit <https://atalacademy.aicte-india.org/signup>
  - Register as a participant → Fill your details
  - Select Workshop:
    - Select State → Chhattisgarh;
    - Select Month → September;
    - Select Thrust Area → Blockchain in Smart City: Emerging Technologies for the Next Decade and Beyond
- The number of seats is limited and seats will be booked as per ATAL Academy guidelines.

## Participation Certificate

A performance evaluation test will be conducted at the end of the **first and second FDP weeks**.

**Minimum 80% attendance**

**Scoring 60% marks in test**

**2 Page Article Summary/per Team**

**Teaching Practice**

**Report/outcome of Industrial visit**

**Reflection Journal**

To receive a participation certificate, all of the above are required. The participation certificate will be issued online through ATAL Academy portal to the eligible participants only.