



**AICTE Training and Learning
(ATAL) Sponsored One Week
Faculty Development Program
(FDP)**

On

**“Blockchain Technologies and
Applications”**

From 14th Sept – 18th Sept

Registration Process:

- **Course Registration is free for all participants**
- **Registration is through online mode only.**
- **Use following link for online registration:**

<https://www.aicte-india.org/atal>

Chief Patron

Prof. A.M. Rawani,
Director, NIT, Raipur

Patron

Dr. (Mrs.) S. Gupta
Dean, R & C, NIT Raipur

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**FDP on
“Blockchain Technologies and
Applications”**

14th– 18th September 2020



Organized by

**Department of Information
Technology**



**National Institute of Technology – Raipur
492010 (Chhattisgarh)**

About the Institute

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 past few decades in this region. With sweet memory of 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 the inauguration of the Institute building was done by our Prime Minister Hon'ble Pt. 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 railways station and 18 km from airport on NH-6, the Great Eastern Road.

About the Department

The **Department of Information Technology** came into existence in year 2000. IT department is the study, research and workplace of approximately 300 students from the 28 states across India. The department provides an outstanding research environment and offers academic program leading to the award of B.Tech., M.Tech., and Ph.D. degree.

Organised by

**Information Technology Department
NIT Raipur (CG) – 492 010, INDIA**

Objectives

Aim of this FDP is to provide up-gradation of knowledge and skills for students, research scholars, faculties, scientists involved in active research in the area of Blockchain Technologies and its applications. The course will provide a national forum for exchange of ideas among interested researchers, students, developers, and practitioners. The lectures will be delivered by distinguished experts in this field. This one week FDP course will include lectures, special case studies in the areas of Blockchain Technology along with the hands-on experiments using distributed platform such as Ethereum and Hyperledger Fabric, etc.

Theme and Scope

One-week FDP on “**Blockchain Technologies and Applications**” will bring together a group of experts in the field of **Information Security, Network Security, and Distributed System** at NIT Raipur. This is a scientific and technological event with aim to bring together professionals working in, NIT, IIIT, AICTE approved engineering colleges and persons working in Industries and R & D organizations, students and researchers of information technology, computer science & engineering and related areas. We have significantly expanded the scope of the workshop, including talks and tutorials on modern and cutting-edge topics related to the Blockchain framework and Security.

Targeted Participants

The programme is open to the faculty members of the AICTE approved institutions, research scholars, PG scholars, Government officers /personnel, bureau crats, technicians, researchers, practitioners, industry personnel and staffs of NIT, Raipur.

Topics to be covered

This FDP will help you to learn the foundations of Cryptographic Techniques, understand how to build distributed networks, and learn how to lead successful blockchain projects. Keeping this in mind, we have proposed the following topics (but not limited) to be discussed during the FDP:

1. Cryptographic Techniques
2. Consensus Algorithms
3. Working of Blockchain Technology
4. Bitcoin
5. Ethereum Platform
6. Hyperledger Fabric
7. Introduction to Solidity programming
8. Hands-on Ethereum Smart Contract Development using Solidity
9. Hands-on Ethereum smart contract deployment on various blockchain network
10. Hands-on Hyperledger Fabric

Registration Fee Details (in INR)

There is no registration fee from any participant.

Selection

Maximum 200 seats are available for the FDP. Participants will be selected from among the applicants to ensure representation from more institutions across the country.

Certification

A test shall be conducted by coordinator at the end of the program. The certificate shall be issued to those participants who have attended the program with 80% attendance and scored minimum 60% marks in the test.