

# Faculty Development Program On Blockchain and its Application

Under the banner of  
**Electronics and ICT academy at National  
Institute of Technology Patna**

**04<sup>th</sup> May to 10<sup>th</sup> May, 2020**



## Patron

**Prof. P. K. Jain**  
Director, NIT Patna

## Coordinators

**Dr. Bharat Gupta**  
Department of Electronics and Communication  
Engineering, NIT Patna  
Patna-800005

## Organized by

Electronics and ICT Academy, National Institute of  
Technology Patna, Patna- 800005. India.

[www.nitp.ac.in/ict/](http://www.nitp.ac.in/ict/)

## Supported by

Ministry of Electronics and Information Technology,  
MeitY, Govt. of India.

## About NIT Patna

National Institute of Technology Patna is the 18<sup>th</sup> National Institute of Technology created by the Ministry of H.R.D. Government of India after rechristening the erstwhile Bihar College of Engineering Patna on 28.01.2004. NIT Patna marked its humble beginning in 1886 with the establishment of pleaders survey training school which was subsequently promoted to Bihar College of Engineering Patna in 1924. This made this institute the 6<sup>th</sup> oldest Engineering Institute of India. The Institute is situated on the south bank of holy river Ganges behind Gandhi Ghat (where the ash of father of the Nation, Mahatma Gandhi was offered in the river Ganges). The campus has a picturesque river view with historic building presenting a spectacle of architecture delight and natural beauty. The Institute imparts high level education training, research and development in science, engineering technology and humanities along with high quality education and values at UG, PG and Ph.D. level. At present the Institute offers courses in six major technical disciplines viz. Architecture, Civil Engineering, Computer Science & Engg., Electrical Engg., Electronics & Communication Engg. And Mechanical Engg. It also consists of well-established departments of Physics, Chemistry, Mathematics and Humanities and Social Sciences.

## Electronics and ICT Academy

Ministry of Electronics and Information Technology, Government of India has instituted seven Electronics and Information & Communications Technology (ICT) Academies of which, the academy of NIT Patna is one. The Academy at NIT Patna aims to design and organize basic as well as specialized training

programmes in niche areas of electronics and ICT for the development of required knowledge base, skills and tools to equip the teaching community with better knowledge and understanding.

## Objective and Scope

The objective of the FDP is to introduce fundamentals of Blockchain technology and implementations of Blockchain technology with their real time applications. FDP course will cover complete understanding of Blockchain concepts with theory & hands on session. Blockchain Hands-on Implementation

- ✓ Block chain based crypto currency Implementation.
- ✓ Block chain based smart contract
- ✓ Learn about how to deploy a business network using Hyper ledger Compose.

Overall, this FDP is serving to be a great platform for faculty and researchers to upgrade their knowledge in Blockchain technology.

## Objectives of the Program

- ✚ Introduction to the concepts of Blockchain and its platforms – Bitcoin, Ethereum, Hyperledger and MultiChain.
- ✚ Overview of the structure and mechanism of Blockchain.
- ✚ Learn about how smart contracts are developed using Solidity.
- ✚ Learn about how to deploy a business network using Hyperledger Compose
- ✚ To gain experience of doing independent study and research.

## Topics to be covered

- ✚ Blockchain Technology Mechanisms & Networks, Blockchain Users and Adoption.

- Alternative Blockchains / Alchains, Ethereum Consensus Mechanisms, Ethereum Virtual Machine (EVM), Ethereum's Ecosystem and Dapps.
- Interfacing with Ethereum Networks, Smart Contracts, Contract Structure, Redeploying Contracts, Behind the Scenes of Deployment.

### Resource Persons

**Experts from Eduxlabs**, Esoir Business Solution LLP, Gurugram, Haryana, India.

**About EduXLabs** : Eduxlabs (Esoir Business Solution LLP) is devoted to conveying extraordinary training and certification Programs. We give intelligent, modified instructional classes to educational institutes and the corporate sector, across the globe. Our team of industry & academic experts facilitates comprehensive technologies courses, to deliver the best learning experience for everyone. EduXLabs.

### One-week FDP includes

Five Days Training will be taken by one Industrial Expert with the experience of 6-8 years in the industry and has delivered more than 1000+ sessions in India and abroad. The training hour is 5-6 hours/ each day. Mode of training is Instructor-led live online

- 40 Hours Instructor-led live online Hands-on based learning & Interactive Query Session.**
- Soft copy of study material, Training PPT's & Projects code
- Participants will get recorded sessions after completion of training.

### Who Can Participate

Faculty members of UGC/AICTE recognized Universities and Engineering colleges all over India, Research scholars (PhD only), students and Industry personals, however priority will be given to the faculty members.

### Registration Fee

- Faculty/ Research Scholar (PhD): Rs. 500/-
- Students: Rs. 500/-,
- Industry and others: Rs. 1000/-

### Registration Process

- Registration fee will be paid though online mode, the account details for this purpose is

**Account Name: NIT Patna**  
**Account No.: 50380476798**  
**IFSC Code: ALLA0212286**

- Link for registration:  
<https://forms.gle/GCfKipT6eyAWXdbQ9>
- The brochure of the program may be downloaded from the Institute website [www.nitp.ac.in](http://www.nitp.ac.in).
- Last date of registration: 02.05.2020**

**Total -100 seats and the selection will be done on first-cum-first-serve basis.** PDF file of online filled registration form with proof of registration fee paid will be send though email to **Dr. Bharat Gupta. (email: [eictapatna@nitp.ac.in](mailto:eictapatna@nitp.ac.in))**

## Faculty Development Program on Blockchain & Its Application (04<sup>th</sup> to 10<sup>th</sup> May, 2020)

### REGISTRATION FORM

- Name (block letter): .....
- Gender: .....
- Caste:.....
- DOB:.....
- Designation .....
- Organization: .....
- Address for communication: .....
- Pin code: ..... Ph. No.:.....
- E-mail: .....
- Highest Academic Qualification: .....
- Specialization: .....
- Experience (in years):  
 (a) Teaching: ..... (b) Industrial: .....
- Aadhar No:.....

### DECLARATION

I do hereby agree to abide by the rules and regulations of the FDP.

Place: .....

Date:.....

.....  
Signature of the Applicant