



Report on

FDP on Block chain Technology and its applications

(29-06-2020 to 03-07-2020)

The Academic Staff College (ASC), KLEF has conducted a one week FDP on **“Block chain Technology and its applications”** from 29-06-2020 to 03-07-2020 for the registered faculty.

Blockchain is an emerging platform for developing decentralized applications and data storage, over and beyond its role as a platform for cryptocurrencies. Blockchain is a growing list of records, called blocks, which are linked using cryptography to keep exchanges secure. Blockchain provides a decentralized database, or “digital ledger”, of transactions that everyone on the network can see. This network is essentially a chain of computers that must approve an exchange before it can be verified and recorded. The use of a Blockchain removes the characteristic of infinite reproducibility from a digital asset. It confirms that each unit of value was transferred only once, solving the long - standing problem of double spending.

This technology is implemented in various real - time applications. Crypto currencies, in particular the first and well -known Bitcoin and others such as Ethereum are canonical examples of Blockchain paradigms.

This Faculty Development Programme aimed to impart knowledge about blockchain technology. Experts from academia and industry have been invited to deliver lectures about the different aspects of blockchain technology.

This FDP provided a basic understanding of all the above aspects of blockchain technology. It will provide a comprehensive understanding on the contemporary cryptographic approaches and their utilization in blockchain

applications that will help faculty to also pursue application development and research in this direction.

Major Course Contents included:

- Introduction to cryptographic primitives
- Advanced cryptographic techniques
- Introduction to Blockchain
- Blockchain platforms
- Permissioned/ Permission-less Blockchains
- Consensus Algorithms
- Security Analysis of Blockchain
- Smart Contracts
- Hyperledger
- Scripting Languages
- Blockchain applications





This is to certify that **MS.PRINCE PRIYA MALLA**

Has participated in the _____

Five-days _____ Faculty Development Program on
FDP on Block chain Technology and its applications

During **29-06-2020 to 03-07-2020** _____.


Principal
ASC