

Abstract

Blockchain Technology

Blockchain is the digital record of transactions. The name comes from its structure, where a single record (called a block) is linked together in a single list (called a chain). Blockchain is used to record transactions made using crypto currencies, such as Bitcoin, and has many other applications. The blockchain is a diary that is almost impossible to forge. The blockchain is essentially a digital ledger (DLT) of transactions, which can be replicated and distributed across the entire network of computer systems on the blockchain. This technology is used to record transactions across many computers so that any involved block cannot be altered retroactively, without the alteration of all subsequent blocks. Corda is a blockchain, Smart contract platform. Hyperledger is a collaborative effort created to advance blockchain technology by identifying and addressing important features for a cross-industry open standards for distributed ledgers can change the way business transactions are carried out on a global scale.

Blockchain in the future will completely change the business process in many industries, but adopting it requires time and effort. It has a fantastic future in different sectors such as supply chain management, digital advertising, forecasting, cyber security, Internet of things, networking, etc., In the near future, the government will finally accept the benefits of blockchain and start using it for improving financial and public services. The proposed seminar is planned to provide students with basic knowledge about the fundamentals of blockchain technology, new opportunities in the industry and its future scope.

Objectives

- 1) Understand the fundamentals and its scope of blockchain.
- 2) Understand how blockchain systems work
- 3) How to securely interact with them
- 4) Design, build, and deploy smart contracts and distributed applications, Integrate ideas from blockchain technology into their own projects