



INTERNATIONAL
AI
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Blockchain

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Blockchain

- Distributed electronics ledger that uses software algorithms to record and confirm transactions with reliability and anonymity.
- The record of events is shared between many parties and information once entered cannot be altered, as the downstream chains reinforces upstream transactions
- Build your first smart contract

Course Outline:

Chapter (1) Introduction

- What is Blockchain?
- How BC Works?
- What makes BC different?
- What are the BC categories?
- Public vs. Private BC
- Advantages of BC

Chapter (2) Technical Knowledge

- Distributed Ledger
- Blocks in BC
- Block Header
- Block Identifier
- Merkle Tree
- Transaction
- Private Key
- Cryptography in BC
- Importance of Cryptography

- Types of Cryptography
- Nodes
- Hashing
- Merkle Tree

Chapter (3) BC Eco Systems

- BC Players
- BC Technologies

Chapter (4) BC Mining

Chapter (5) BC Applications

- BC Drawbacks
- Green house of open source BC projects, using different frameworks to build BC such as (Fabric, sawtooth) and there are available tools as well such as (Hyper ledger composer, cello, quilt, and explorer)
- BC Study Cases
- Build Smart Contract