



School: ..... Campus: .....

Academic Year: ..... Subject Name: ..... Subject Code: .....

Semester: ..... Program: ..... Branch: ..... Specialization: .....

Date: .....

## Applied and Action Learning

(Learning by Doing and Discovery)

**Name of the Experiment :** Crypto Timeline – Evolution of Digital Currencies

### Objective/Aim:

To study the historical evolution, major milestones, and technological advancements in digital currencies, from early concepts to modern cryptocurrencies.

### Apparatus/Software Used:

- Laptop
- WPS Office for documentation
- Google for research

### Theory/Concept:

- **1983 – DigiCash Concept:**

David Chaum introduced the concept of electronic cash using cryptography for secure and anonymous transactions.

- **1998 – b-money & Bit Gold:**

Wei Dai (b-money) and Nick Szabo (Bit Gold) proposed decentralized digital currency systems. These were conceptual blueprints for Bitcoin.

- **2009 – Bitcoin Launch:**

Satoshi Nakamoto released Bitcoin, the first decentralized cryptocurrency, based on blockchain technology.

- **2011 – Altcoins Emerge:**

Litecoin, Namecoin, and others introduced variations of Bitcoin to improve speed, privacy, and use cases.

- **2015 – Ethereum and Smart Contracts:**

Ethereum launched, enabling programmable blockchain applications through smart contracts.

- **2017 – ICO Boom:**

Initial Coin Offerings (ICOs) became a popular fundraising method, attracting global investment.

- **2020 – DeFi Expansion:**

Decentralized Finance platforms like Uniswap and Aave enabled lending, borrowing, and trading without intermediaries.

- **2021 – NFT Explosion:**

Non-Fungible Tokens (NFTs) gained massive popularity, creating digital ownership for art, collectibles, and more.

- **2023 – CBDCs & Regulation:**

Central Bank Digital Currencies (CBDCs) gained momentum, and regulations around cryptocurrencies began solidifying worldwide.

Procedure:

- Researched the history and milestones of digital currencies from early concepts to present-day applications.
- Collected information from credible sources such as whitepapers, news archives, and blockchain community resources.
- Organized events chronologically to create a clear timeline of developments.
- Analyzed the impact of each milestone on the adoption and advancement of digital currencies.
- Prepared documentation with both textual and visual timeline representation.

Observation Table:

| Year | Event/Innovation              | Key Contribution  |
|------|-------------------------------|---|
| 1983 | DigiCash                      | Introduced cryptographic e-cash for secure transactions               |
| 1998 | b-money & Bit Gold            | Proposed decentralized currency concepts                              |
| 2009 | Bitcoin                       | First decentralized cryptocurrency launched                           |
| 2011 | Litecoin, Namecoin            | First generation of altcoins introduced                               |
| 2015 | Ethereum                      | Enabled smart contracts and decentralized apps                        |
| 2017 | ICO Boom                      | Fundraising through token sales                                       |
| 2020 | DeFi Growth                   | Blockchain-powered financial services without intermediaries          |
| 2021 | NFT Popularity                | Digital ownership for art, collectibles, and virtual assets           |
| 2023 | CBDC Development & Regulation | Government-backed digital currencies and global regulatory frameworks |

## ASSESSMENT

| Rubrics  | Full Mark | Marks Obtained | Remarks |
|--|-----------|----------------|---------|
| Concept  | 10        |                |         |
| Planning and Execution/<br>Practical Simulation/ Programming | 10        |                |         |
| Result and Interpretation                                    | 10        |                |         |
| Record of Applied and Action Learning                        | 10        |                |         |
| Viva   | 10        |                |         |
| <b>Total</b>   | <b>50</b> |                |         |

***Signature of the Student:***

***Name :***

***Regn. No.***

***Signature of the Faculty:***