

# INFOSOFT IT SOLUTIONS

**Training | Projects | Placements**

Revathi Apartments, Ameerpet, 1<sup>st</sup> Floor, Opposite Annapurna Block, Infosoft It solutions,  
Software Training & Development Institute, +91 - 9059683947 | +91 - 9182540872

## **IOTA**

- **Introduction to IOTA**

- Overview of IOTA and its mission
- Understanding the Tangle: IOTA's distributed ledger technology
- How IOTA differs from traditional blockchain systems
- Historical context and development of the IOTA project

- **Tangle Architecture**

- Exploring the structure of the Tangle
- Transactions and tips
- Consensus mechanisms: Directed Acyclic Graph (DAG) vs. Blockchain
- Security features of the Tangle

- **IOTA Protocol Stack**

- Layers of the IOTA protocol: Network, Transaction, and Application
- Peer-to-peer communication in the IOTA network
- Transaction processing and validation

## □ **IOTA Tokens and Wallets**

- Understanding MIOTA: IOTA's native cryptocurrency
- Wallet types and their features: Full node wallets, light wallets, and hardware wallets
- Sending and receiving transactions using IOTA wallets

## □ **IOTA Development**

- Setting up a development environment for building IOTA applications
- Using libraries and SDKs for interacting with the IOTA network
- Writing smart contracts on the IOTA network

## □ **Use Cases and Applications**

- IoT (Internet of Things) and Machine-to-Machine (M2M) communication
- Supply chain and logistics tracking
- Decentralized identity and authentication
- Micropayments and feeless transactions

## □ **IOTA Ecosystem**

- Overview of the IOTA Foundation and its initiatives
- Community projects and collaborations within the IOTA ecosystem
- Participating in the IOTA community: Forums, meetups, and hackathons

## □ **Security and Privacy Considerations**

- Security best practices for using IOTA
- Privacy features of the Tangle
- Potential vulnerabilities and mitigation strategies

## □ **Future Directions and Challenges**

- Scalability and performance improvements
- Integration with other technologies and protocols
- Regulatory considerations and legal challenges