Mastering Digital Currencies: Bitcoin and CBDC Essentials

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Online



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Ref: 20222807_214666_28 Location: Online Fees: 2700 GBP

Course Description

This intensive 1-week course provides a comprehensive understanding of digital currencies, focusing on Bitcoin and Central Bank Digital Currencies CBDCs. Participants will explore blockchain technology, cryptocurrency fundamentals, and the evolving landscape of digital finance. The course combines theoretical knowledge with practical applications, preparing professionals for the future of monetary systems.

Learning Objectives

- Understand the fundamentals of blockchain technology and its applications in digital currencies
- Analyze the mechanics, benefits, and risks of Bitcoin and other cryptocurrencies
- Explore the concept, implementation, and implications of Central Bank Digital Currencies
- Evaluate the legal and regulatory frameworks surrounding digital currencies
- Assess the impact of digital currencies on traditional financial systems and global economies

Course Modules

Day 1: Introduction to Blockchain and Digital Currencies

- Blockchain technology fundamentals
- Evolution of money and the emergence of digital currencies
- Types of digital currencies: cryptocurrencies, stablecoins, and CBDCs
- Key cryptographic concepts in digital currencies

Day 2: Bitcoin and Cryptocurrency Essentials

- Bitcoin protocol and network architecture
- Mining, consensus mechanisms, and blockchain security
- Cryptocurrency wallets and exchanges
- Alternative cryptocurrencies and their unique features

Day 3: Central Bank Digital Currencies CBDCs

- CBDC concepts and design choices
- Motivations for CBDC implementation
- CBDC models: wholesale, retail, and hybrid
- Case studies of CBDC projects worldwide



Day 4: Regulatory and Legal Aspects of Digital Currencies

- Global regulatory approaches to cryptocurrencies
- AML/KYC considerations in digital currency transactions
- Legal challenges and opportunities in CBDC implementation
- Privacy and data protection in digital currency systems

Day 5: The Future of Digital Currencies and Financial Innovation

- Impact of digital currencies on monetary policy
- Cross-border payments and international trade
- Decentralized Finance DeFi and its potential
- Emerging trends and future scenarios in digital finance

Practical Wins for Participants

- Hands-on experience with cryptocurrency wallets and transactions
- Ability to assess and compare different CBDC models
- Skills to navigate regulatory compliance in digital currency operations
- Insights to develop strategies for integrating digital currencies into existing financial systems

