



BLOCKCHAIN AND CRYPTO TRADING

Name of the Course : *Blockchain and Crypto Trading*

Course offered by : *Economics*

Course Coordinator : *Dr. Franco T. Francis*

Course Code : *CPCC40*

Learning Outcomes :

- *Develop Blockchain skills & understanding.*
- *Gain an in-depth understanding of Blockchain & its implementation*
- *Implement skills in any Blockchain applications*
- *Build Blockchain enterprise with acquired knowledge*

Course Module :

- *Module I: Bitcoin, NFT, and Metaverse*
- *Module II: Financial Markets, Trading Instruments, and Investment Strategies*
- *Module III: Technical Analysis and technical analysis Indicators*



SYLLABUS

MODULE I

History of Bitcoin- Digital cash before Bitcoin-Bitcoin mining work-Bitcoin on peer-to-peer markets- bitcoin wallet-scalability-Lightning Network, forks: Soft forks-Hard forks- Bitcoin node-Ethereum and DAO - Ethereum Classic- mining work- Ethereum tokens- peer-to-peer markets-Ethereum wallet-Hot wallets and Cold wallets- Ethereum staking-Decentralized Finance (DeFi), Decentralized Exchanges (DEXs) on Ethereum-Ethereum node-Ethereum ProgPo, NFT-ERC Standards-Walkthrough Opensea- Metamask account set-up-Creating & Minting an NFT, History of Web and evolution-Metaverse -Product of Extended Reality-Augmented Reality (AR)-Virtual Reality (VR)- Mixed Reality (MR)-Artificial Intelligence (AI)-Financial and Economics of Metaverse-Benefits of Metaverse-NFTs in MV-Cryptocurrency in MV-Cybernetics-Gaming, Meetings, Virtual Learning, Social Interactions, Virtual Real-estate, e-commerce and Digital Identity in Metaverse (10 Hours)

MODULE II

Fundamental analysis vs. technical analysis of Trading- Financial Markets and Trading Instruments -Spot market-Margin trading-Derivatives market-Forward and futures contracts-Perpetual futures and Options contracts-Foreign exchange (Forex) market-Leveraged tokens
Trading and Investment Strategies, Portfolio and Risk management, Day, Swing, and Position trading, Scalping Smart money concepts (SMC)-Dow Theory-Elliott Wave Theory-Wyckoff Method, Index investing and Paper trading (10 Hours)

MODULE III

Technical Analysis-Long position-Order book depth-Market order-Slippage in trading-Bid-ask spread-Candlestick chart and Trend line- Support and resistance-Technical Analysis Indicators-Leading vs. lagging indicators-Momentum indicator-Trading volume-Relative Strength Index (RSI)-Moving Average (MA)-Moving Average Convergence Divergence (MACD)Fibonacci Retracement tool-Stochastic RSI (StochRSI)-Bollinger Bands (BB) Volume-Weighted Average Price (VWAP)Parabolic SAR-Ichimoku Cloud. (10 Hours)

REFERENCE

1. "Mastering Bitcoin: Unlocking Digital Cryptocurrencies" by Andreas M. Antonopoulos
2. "The Internet of Money" by Andreas M. Antonopoulos
3. "Blockchain Basics: A Non-Technical Introduction in 25 Steps" by Daniel Drescher
4. "Digital Gold: Bitcoin and the Inside Story of the Misfits and Millionaires Trying to Reinvent Money" by Nathaniel Popper
5. "Cryptoassets: The Innovative Investor's Guide to Bitcoin and Beyond" by Chris Burniske and Jack Tatar
6. "The Age of Cryptocurrency: How Bitcoin and Digital Money are Challenging the Global Economic Order" by Paul Vigna and Michael J. Casey
7. "Trading Cryptocurrencies: A Beginner's Guide" by Clem Chambers