

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



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*



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MODULE I

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Blockchain and Crypto Trading

(Value Added Certificate Course)

Course Code: CPCC40

Summary Report 2022-23

During the academic year 2022-23, the course was started on November,2022. There were 26 students for the course. All the students completed the course. The course was of 30 hrs. duration.

Course Outcome:

Students are trained to

- **Handle different situations in a professional and an analyst perspective.**
- **The course will enable them to develop an on-trading methodology and gives confidence in trading**
- **Equip themselves as a trained crypto trading and block chain analyst**
- **The course will help to analyse fundamentals of a project and decide whether invest in it or not**

Coordinator: Dr. Franco T. Francis

Blockchain and Crypto Trading
(Value Added Certificate Course)

Course Code: CPCC40

Teacher Coordinator Report 2022-23

Number of students	26
Date of examination	28-02-2023
Total students who passed exam	26
Total course duration	30 hrs

Feedback analysis:

- **The students learned more about the technical side of Block Chain and Crypto Trading.**
- **They are happy with the help provided by the technical team of crypto academy through out the course and after for trading.**
- **Most of the students suggested the course for coming batch.**

Coordinator: Dr. Franco T Francis



CHRIST
COLLEGE (AUTONOMOUS)
IRINJALAKUDA, KERALA
Reaccredited by NAAC with 'A' grade



Certificate of Completion

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Nikhila Chandraboss

to acknowledge successful completion of the curriculum for **Blockchain Fundamentals and Cryptocurrency Trading** administered by Cryptac.Inc.

Fr. Dr. Jolly Andrews

Principal Christ
College, Irinjalakuda

Alphin Paul Antony

Founder, Cryptac



Date : June 2022



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COLLEGE (AUTONOMOUS)
IRINJALAKUDA, KERALA
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Certificate of Completion

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Akhila Chandraboss

to acknowledge successful completion of the curriculum for **Blockchain Fundamentals and Cryptocurrency Trading** administered by **Cryptac.Inc.**

Jolly

Fr. Dr. Jolly Andrews

Principal Christ
College, Irinjalakuda

Alphin

Alphin Paul Antony

Founder, Cryptac



Date: June 2022

CRYPTAC ACADEMY - blockchain fundamental and crypto trading

Total No. of Questions: 25

Total Marks: 50

SECTION 1:

Q1 What is Solidity ? (2 Marks)

- A. Programming language for mobile apps
- B. Code in Bitcoin network
- C. Programming language for writing Smart Contracts
- D. Cryptocurrency

Q2 What does RSI stand for ? (2 Marks)

- A. Relative Stochastic Index
- B. Relative Stress Index
- C. Relative Strength Index
- D. Relative Sniper Index

Q3 Which blockchain hosts the most NFT's ? (2 Marks)

- A. Ethereum
- B. Bitcoin
- C. Litecoin
- D. Polygon

- Q4 (2 Marks)
What is the maximum number of Bitcoins that can exist ?
- A. 21,000
 - B. 2,100,000
 - C. 21,000,000
 - D. 21,00,00,000
- Q5 (2 Marks)
Which of the following cannot be done on the Metaverse ?
- A. Users will be able to create their own avatars and interact with each other
 - B. Users will be able to virtually visit distant locations
 - C. Companies can use the space for advertising.
 - D. Users can make real-world banking transactions
- Q6 (2 Marks)
What do you call chart patterns that signal that the ongoing trend will likely resume ?
- A. Continuation
 - B. Reversal
 - C. Bilateral
 - D. Expansion
- Q7 (2 Marks)
What was Bitcoin's all time high price (in dollars) ?
- A. \$68,350
 - B. \$63,729
 - C. \$71,882
 - D. \$60,113

Q8 Taking trades against the current direction of price action is more commonly known as...

(2 Marks)

- A. Trend trading
- B. Counter-trend trading
- C. Breakout trading
- D. News trading

Q9 Which algorithm has the highest computational cost ?

(2 Marks)

- A. Proof of Authority
- B. Proof of Work
- C. Proof of Stake
- D. Proof of Owner

Q10 Who created the solidity language ?

(2 Marks)

- A. Vitallik Buterin
- B. Gavin Wood
- C. Jeffrey Archer
- D. Satoshi Nakamoto

Q11 Solidity runs on _____ ?

(2 Marks)

- A. Ethereum Virtual Machine
- B. Bitcoin Blockchain
- C. Peer Networks
- D. Mining

- Q12 Who created the first NFT ? (2 Marks)
- A. Anil Dash
 - B. Jennifer McCoy
 - C. Kevin McCoy
 - D. Alex James
- Q13 What is Ethereum ? (2 Marks)
- A. Open software platform based upon Blockchain technology
 - B. Private software platform based upon Blockchain technology
 - C. Technology used in banks
 - D. Centralized platform
- Q14 What is fundamental analysis ? (2 Marks)
- A. The study and use of harmonic price patterns
 - B. The study and use of economic, political and environmental reports to forecast future price action
 - C. The study and use of basic chart patterns
 - D. Chart patterns and indicators
- Q15 Which of the following companies aren't involved in the development of the Metaverse ? (2 Marks)
- A. Facebook
 - B. Amazon
 - C. Microsoft
 - D. Google

- Q16 (2 Marks)
- What is a “dead bitcoin” ?
- A. A bitcoin that has been hacked or stolen
 - B. A bitcoin that has been used in an illegal transactions
 - C. A bitcoin which can no longer be accessed
 - D. A bitcoin yet to be mined

- Q17 (2 Marks)
- The idea behind the Bollinger bounce is that price tends to.....
- A. Breakout of the bands when they squeeze together
 - B. Consolidate at the bands
 - C. Return to the middle of the bands
 - D. Wick Rejection

- Q18 (2 Marks)
- Name of the first Altcoin ?
- A. Litecoin
 - B. Ether
 - C. Namecoin
 - D. Luna

- Q19 (2 Marks)
- Charles Hokinson founded this cryptocurrency:
- A. Cardano
 - B. Stellar
 - C. Chainlink
 - D. Binance Coin

- Q20 What is ERC20 ? (2 Marks)
- A. Token Standard
 - B. Smart Contract
 - C. Node
 - D. Wallet

- Q21 Bollinger bands can be used to measure the market's ____ in such a way that when the market is "loud" the bands expand and when the market is "quiet" they contract. (2 Marks)
- A. Volume
 - B. Volatility
 - C. Trend
 - D. Momentum

- Q22 What is the process of solving complex mathematical equations ? (2 Marks)
- A. Hash Matching
 - B. Genesis
 - C. Proof of work
 - D. Proof of stake

- Q23 What are the disadvantages of Blockchain Technology ? (2 Marks)
- A. Blockchain is not indestructible.
 - B. Scalability remains Blockchain's weakness
 - C. Blockchain entries do not last forever or are not immutable.
 - D. All of the above

Q24

(2 Marks)

Which of the following industry can use Blockchain technology for cyber security ?

- A. Logistics
- B. Healthcare
- C. Critical Infrastructure
- D. All of the above

Q25

(2 Marks)

Which is not a common feature of Blockchains and Cryptocurrencies ?

- A. Transparency or privacy
- B. Centralized control
- C. Smart contracts
- D. Hedge against hyperinflation

BLOCKCHAIN FUNDAMENTAL AND CRYPTO TRADING

(Value Added Certificate Course)

Second Batch : 2022-23

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