

**Training Workshop in the future of business**

# Demystifying BlockChain Technology and Cryptocurrency

(Bitcoin & Beyond: Hands-on Trading analysis and techniques)

Equip yourself with cutting-edge training skills to lead the future of digital economy

**Dr. Sayed Qaiser Ali Shah**

<https://www.linkedin.com/in/dr-sayed-qaiser-ali-shah-7785aa60/>

Assistant Professor (FAST NUCES)

Consultant Cyber Security, Cloud and FinTech

Huawei Certified Academy Instructor (HCAI)



## Time & Dates

July 14-18, 2025

Morning: (Monday-Friday)

5 days (09:00 AM-01:30 PM)

July 21-25, 2025

Evening (Monday-Friday)

5 days (03:00 PM-7:00 PM)

July 18-19, 2025 & July 25-26, 2025

Weekend Program

4 days/2 Weekends (03:00 PM-07:00 PM)

 **VENUE: Islamabad Campus**



Apply Now

**Contact Us**

+92 322 615 2199 

fcoee@nu.edu.pk 

<https://nu.edu.pk/CoEE/index> 

UAN: +92 (51) 111-128-128 (Ext): 351 

A.K Brohi Road H-11/4 Islamabad 



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## Overview on Workshop & Objectives

In today's rapidly evolving digital economy, cryptocurrencies and blockchain technologies are revolutionizing the way we think about finance, governance, and value exchange. Despite their significance, many individuals and organizations lack a clear understanding of how these technologies work, their practical applications, and associated risks.

This beginner-friendly, interactive workshop is designed to uncover the fundamentals of blockchain and cryptocurrencies such as Bitcoin, Ethereum, Alt Coins and Meme Coins. Through practical activities involving wallets, exchanges, smart contracts, and NFTs, you will gain firsthand experience. The course also covers the regulatory landscape, security challenges, and investment risks, alongside real-world use cases in Decentralized Finance (DeFi), supply chains, and digital identity.

The participants will understand how cryptocurrencies and blockchain technology work, including how digital assets are created, transferred, and verified. They will confidently set up and securely manage wallets and trade on different exchanges. Additionally, they will explore decentralized applications (dApps), analyze current trends in DeFi, NFTs, and digital assets, and learn to identify scams while applying best security practices. They will also develop the skills to navigate regulatory, ethical, and financial risks responsibly. Through practical simulations and case studies, they will confidently apply their knowledge in real-world scenarios.



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## Learning Outcomes:

- Articulate and demonstrate understanding of cryptocurrency and blockchain fundamentals, confidently navigating and using crypto wallets and trade on exchanges.
- Compare and critically analyze public versus private blockchains, illustrating their differences through real-world examples and applications.
- Understand basic smart contract concepts comprehend the ability to automate processes on blockchain platforms.
- Identify and evaluate common scams, security vulnerabilities, and best practices, demonstrating the ability to secure and manage crypto assets responsibly.
- Explain the functioning of NFTs and DeFi applications, illustrating their applications through practical scenarios and use cases.
- Apply crypto concepts in business applications, such as trading by assessing and managing regulatory, ethical, and financial risks to make informed decisions.

## What You Will Learn

During this workshop, you will gain a solid understanding of how blockchain technology and cryptocurrencies function, including fundamental concepts like wallets, exchanges, and smart contracts. You will learn how to securely manage digital assets, explore decentralized applications (dApps), and analyze real-world use cases such as NFTs and DeFi. Additionally, you'll develop the skills to identify common scams and security threats, practice safe asset management, and navigate the regulatory landscape. Through hands-on activities and practical simulations, you'll be equipped to participate confidently and responsibly in the rapidly growing world of digital assets and blockchain-enabled solutions.



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# Training Plan Outline

## Module-1 Introduction to Cryptocurrency & Bitcoin

Explores core concepts of crypto and Bitcoin, their history, and decentralized finance roles. Covers Bitcoin's origin, whitepaper, and basic blockchain principles. Includes practical activities like key pair generation and transaction simulation.

## Module-2 Blockchain Fundamentals

Provides an overview of how blockchain technology works, highlighting components like blocks, mining, and consensus mechanisms. Discusses decentralization versus centralization and introduces Ethereum and smart contracts. Uses simulators to visualize blockchain processes.

## Module-3 Crypto Wallets and Exchanges

Teaches secure cryptocurrency storage and trading methods, contrasting hot and cold wallets. Explores centralized vs. decentralized exchanges with setup exercises. Analyzes security breaches through case studies for better understanding.

## Module-4 Market Structure & Order Types

Explains market mechanics, including spot and derivatives trading. Clarifies order types such as market, limit, and stop-limit, with discussions on liquidity and slippage. Includes mock trading and risk identification exercises.

## Module-5 Introduction to Technical Analysis

Focuses on analyzing price charts and patterns, including candlesticks, support/resistance, and trends. Provides hands-on practice with TradingView and chart marking. Reinforces learning through pattern recognition quizzes.

## Module-6 Key Indicators & Chart Patterns

Empowers students to use technical tools like moving averages, RSI, and MACD to forecast market moves. Recognizes breakout and reversal patterns through practical analysis. Includes live chart analysis and group prediction challenges.



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### Module-7 Sentiment & On-Chain Analysis

Highlights market psychology tools, like Fear & Greed Index, and blockchain metrics such as whale activity. Uses data from platforms like Santiment and Glassnode. Features case studies and role-playing on regulatory impacts.

### Module-8 Risk Management & Trading Psychology

Focuses on strategies to reduce risks, manage emotions, and develop personal trading plans. Covers position sizing, stop-loss, and overcoming biases like FOMO. Incorporates live scenario analysis and behavioral exercises.

### Module-9 DeFi and Altcoins Overview including Meme Coins

Introduces decentralized finance applications and alternative cryptocurrencies beyond Bitcoin. Explores DeFi protocols for lending and staking, comparing with mainstream coins. Engages in hands-on protocol interaction and research presentations.

### Module-10 Hands-On Trading Simulations

Applies theoretical knowledge through group virtual trading exercises, analyzing setups with technical analysis and sentiment data. Encourages recording decisions and reviewing outcomes. Builds practical skills in a simulated environment.

### Module-11 Security, Scams & Regulations

Prepares learners to identify scams, perform thorough project research, and understand crypto regulations globally. Discusses risks like rug pulls and phishing. Includes quizzes and debates on regulatory approaches.

### Module-12 Capstone Project / Final Assessment

Guides learners to create a comprehensive trading strategy, integrating all concepts learned. Promotes peer presentations and critiques for improvement. Culminates in defending strategies with technical and on-chain data.



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## Instructional Approach & Unique Value

- An interactive, hands-on learning experience utilizing live crypto tools, testnets, and real-world simulations.
- Clear, simplified explanations designed to break down complex blockchain concepts.
- Engagement through group discussions, case studies, and trusted platforms such as Binance, CoinMarketCap, and TradingView.
- No prior coding or financial knowledge required — accessible for learners from all backgrounds.
- Led by instructors with extensive industry and academic expertise, ensuring you gain practical skills and relevant insights.





## Who Should Attend:

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- **Aspiring Blockchain and Cryptocurrency Professionals:** Individuals seeking to build careers in blockchain development, crypto trading, or blockchain consulting.
- **Finance and Fintech Professionals:** Bankers, financial advisors, and fintech employees looking to expand their knowledge of digital assets and decentralized finance (DeFi).
- **Entrepreneurs and Business Owners:** Entrepreneurs interested in integrating blockchain solutions, NFTs, or cryptocurrencies into their business models.
- **Investors and Traders:** People involved or interested in crypto investing who want to understand security measures, risks, and operational aspects.
- **Students and Academics:** Learners studying computer science, finance, or technology who want to gain practical knowledge and skills in blockchain and cryptocurrency.
- **Regulatory and Legal Professionals:** Individuals involved in compliance, regulation, or policy-making related to digital assets and blockchain technology.
- **Government and Public Sector Officials:** Policymakers and regulators aiming to understand blockchain technology for better governance and regulation.



**20%**  
**DISCOUNT**

For minimum of a Group of 03 persons,  
FAST NU Alumni/Students/Faculty  
and Specially abled persons

**Learning Investment: PKR 35,000/-**



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**Join us to unlock the potential of blockchain and cryptocurrencies, confidently participate in the digital economy, and stay ahead in this transformative space.**

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