Certificate Course Introduction to Web 3 and Blockchain

Created by the Blockchain Research Lab at NCU



Introduction

This certificate course is an introduction to Web 3 and Blockchain. It is unique as you will learn conceptual knowledge in Chapter 1 and gain practical knowledge using our Web 3/Blockchain applications in Chapter 2.

Table of Contents

1.	Introduction To Blockchain, Crypto, and Web 3. And How Blockchain Can Be Used for Financial Transactions6
2.	The Market Cap Size of Cryptocurrency From 2017-2022. Crypto Tokens Have Grown in Market Size
3.	Keyword Terms Used in Web 3 and Blockchain7
4.	Introduction to on-Chain and Off-Chain Data Storage for Blockchain8
5.	Blockchain for Tracking Shipments9
6.	Blockchain for E-Commerce10
7.	The Market Size of Cryptocurrency Used as a Form of Payment11
8.	Blockchain Domains Can Be Used To Stop Domain Censorship12
9.	Stable Coins Will Complete More Transactions Than Visa in the Future.13
10.	The Benefits of Stable Coins Backed by Different Fiat Currencies Being Able To Be Exchanged Between Each Stable Coin Backed by Fiat, Similar to Fx Exchange
11.	Blockchain for Store of Value15
12.	Crypto Trading and How Access to Crypto Trading Benefits for the Public16
13.	The Benefits of Crypto Payments for Ride-Sharing and Delivery Apps17
14.	The Benefits of Crypto Payments for Gaming Industry
15.	What Is Gamification and How It Can Be Applied to Online Social Communities To Incentivize Action19
16.	The Benefits of Using a Blockchain Payment System To Pay Out Rewards From Gamification for Online Social Communities20
17.	The Estimated Size of Crypto Payments for International Transactions22

Page

18.	The Estimated Current Volume Size Trend of Emerging Crypto Payments vs Traditional Payments23
19.	Are Traditional Fiat Payments Being Replaced by Blockchain Stable Coin Payments. And What Year It Is Estimated That Stable Coins Will Be More Used Than Traditional Payment Systems24
20.	The Benefits and How Crypto Can Be Stored in Cold Storage25
21.	The Benefits of Fully Audited Gold-Backed Stable Coins26
22.	Benefits of Being Able To Exchange Fiat-Stable Coins for Other Fiat- Stable Coins
23.	The Benefit of Tokenizing Commodities Such as Gold and Real Estate29
24.	Benefits of Crypto Payments for Banking the Unbanked
25.	The Benefits of Using Crypto Currency for the Legal Grey Market or High Risk Market Merchant Services Will Not Service
26.	The Estimated Size of Crypto Payments Used in the Gaming Industry in 2022
27.	The Benefits of Blockchain for Shipping, Logistics, and Trade Finance 32
28.	The Benefits of Cryptocurrency Payments for Tourists for Traveling Compared to Visa
29.	The Benefits of Blockchain and Cryptocurrency Payments To Prevent Unfair Payment Monopolies Controlling Online E-Commerce Sales ³⁴
30.	Traditional Payments Company's Potential To Cancel Companies due to Political Bias
31.	Blockchain Option for Chinese Suppliers Providing for US Market35
32.	Blockchain Use in the Legal US CBD and Cannabis Industry
33.	How Traditional Payments Could Possibly Be Used To Censor Political Opponents and How Blockchain and Crypto Payments Can Solve This .37
34.	How Blockchain and Crypto Payments Can Prevent Traditional Payment Companies Being Used To Stifle and Prevent Innovation That Disrupts

	Monopolies
35.	The Benefits of Using Blockchain Vote Applications for Passing Regulations and Funding39
36.	The Benefits of Using Blockchain Donation Applications for Passing Regulations and Funding39
37.	The Benefits of Accessing the Cryptocurrency Market To Buy, Sell and Exchange40
38.	The Benefits of Using a Gold-Backed Stable Coin To Protect Against Stagflation41
39.	What Is a Video Web Streaming Platform Is and How It Can Benefit From Crypto Payments41
40.	What Is a Social Platform and How It Can Benefit From Gamified Crypto Earnings for Participation42
41.	The Benefit of Esports Player Sponsorship Using Blockchain Payments. And the Benefits of Using Crypto Payments for Participation in Events and Paying Out in Cryptocurrency Prizes43
42.	The Benefits of Crypto Custodian Services. Digital Assets Are Stored in Cold Storage and 100 Percent Insured44
43.	The Benefits of Using Blockchain and Cryptocurrency for Licensed Casinos and Online Game Companies45
44.	List of Countries Where Buying Cryptocurrency, and Stable Coins Such as Bitcoin Is Legal46
45.	How Liquidity Is Created for Crypto Exchanges46
46.	The Benefits Using Blockchain and Crypto for Large Transactions Compared to Swift47
47.	The Difference Between a Blockchain Utility Token and Security Token. And How Is the Howie Test Applied to Stable Coins and Utility Tokens. ⁴⁸
48.	What Is an Initial Coin Offering and How Much Money Has Been Raised Using Initial Coin Offerings From 2017-202248

49.	Could the Failure of FTX Exchange, Three Arrows Investment Fund, Luna	
	Stable Coin Been Avoided if There Was More Transparency of the Management Team? (Opinion)	
Ch	apter 2	
1.	Blockchain IPB Payment Systems52	
2.	Blockchain IPB Payment Systems64	
3.	Blockchain E-Commerce83	
4.	Blockchain IPB Exchange	
5.	Blockchain IPB Trade Finance	
6.	Blockchain INFYNIT Media Streaming and Social Platform119	
References		

Chapter 1

Introduction To Blockchain, Crypto, and Web 3. And How Blockchain Can Be Used for Financial Transactions.

Blockchain technology, cryptocurrency, and Web 3.0 are all innovative developments in the digital world that are rapidly transforming the way we conduct transactions, interact with each other, and exchange value. Blockchain technology is a decentralized, secure, and transparent ledger system that records transactions in an immutable and tamper-proof way. Cryptocurrency, on the other hand, is a digital asset that uses cryptography to secure transactions and control the creation of new units. Web 3.0 is the next generation of the internet that aims to create a more decentralized and open web, where users have more control over their data and interactions.

To read more, <u>enroll to Intro to</u> <u>Blockchain Course</u>