COLOMBIA POTENCIA DE LA VIDA

TIC

ENGLISH CODE BLOCKCHAIN

EXPLORER - Module 1
Unit 3

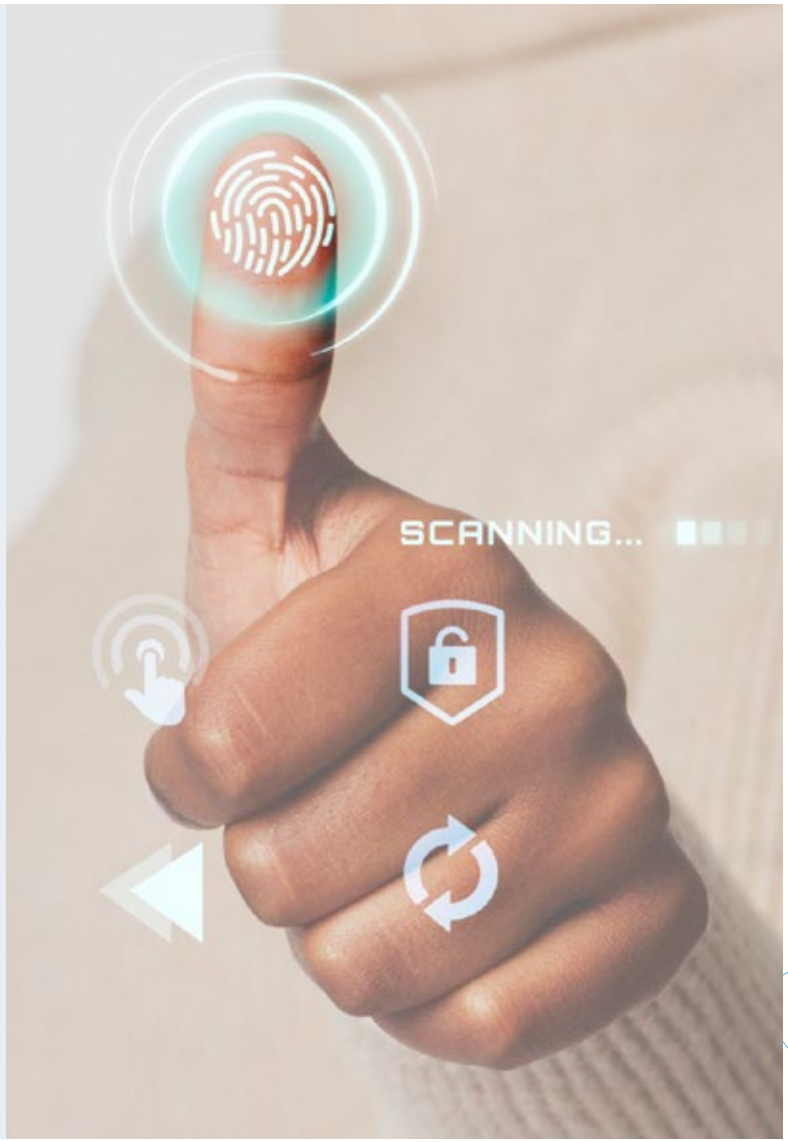
TALENTO TECH

AZ | PROYECTOS EDUCATIVOS

UTP Universidad Tecnológica de Pereira

CONTEXTUALIZATION OF MY LEARNING

This course provides a comprehensive introduction to essential blockchain concepts, terminologies, and the historical context of cryptocurrencies, aligning seamlessly with the exploration of cryptography in blockchain. With a specific focus on Satoshi Nakamoto's influence, the course delves into cryptographic principles that form the backbone of secure transactions within blockchain networks. The module emphasizes not only the demystification of smart contracts but also their cryptographic underpinnings, highlighting their crucial role in task automation. Furthermore, the course extends its coverage to Ethereum's ecosystem, including its cryptocurrency Ether, and explores the execution of smart contracts on the Ethereum Virtual Machine, incorporating practical insights into the cryptographic tools, development environment, and SDKs essential for blockchain application development. This integrated approach ensures that participants gain both theoretical knowledge and practical skills, laying a solid foundation for understanding blockchain, cryptography, and their interconnected applications.



General objective

UNIT 1

- Facilitate a comprehensive understanding of essential blockchain concepts, terminologies, and the historical context of cryptocurrencies, emphasizing the influence of Satoshi Nakamoto. This objective aims to enhance participants' technological literacy, enabling them to navigate and engage in discussions on blockchain-related topics.

- Ensure participants acquire both theoretical knowledge and practical skills by delving into cryptographic principles, smart contracts, and the Ethereum ecosystem. By focusing on the cryptographic underpinnings of smart contracts and exploring the tools and development environment for blockchain application development, this objective aims to provide a well-rounded education in blockchain technology.

SKILLS TO DEVELOP

- Linguistic competence.
- Pragmatic competence.
- Sociolinguistic competence.
- Topical Competence.

Linguistic competence: Students will develop linguistic competence by acquiring a comprehensive understanding of essential blockchain concepts and terminologies. They will be able to recognize and use key vocabulary related to cryptocurrencies, smart contracts, and blockchain technology, enabling effective communication within the field of blockchain and cryptocurrency.

Pragmatic competence: Through the exploration of smart contracts, task automation, and practical insights into blockchain application development, students will enhance their pragmatic competence. They will be able to comprehend and interpret written descriptions of blockchain concepts, gaining practical communication skills necessary for real-world scenarios in the blockchain industry.

Sociolinguistic competence: Students will contextualize AI vocabulary within real-world scenarios specific to blockchain technology. By exploring the historical context of cryptocurrencies and understanding the societal impact of blockchain, they will enhance their sociolinguistic competence. This will enable them to relate linguistic forms to practical uses in the field of blockchain and navigate the sociocultural aspects of blockchain technology.

Topical Competence: Specialized understanding of Ethereum, Ether, and the execution of smart contracts.

UNIT 3: Exploring the role of cryptography in securing transactions and maintaining the integrity of the blockchain (reading and vocabulary).

Execution time: 4 hours.

APPROACH OF THE SESSION

1) Socialize the technology idiom of the day.

2) Socialize keywords from the reading below "Securing Online Transactions: A Cryptography Guide"

3) Reading: "Securing Online Transactions: A Cryptography Guide".

4) Matching description activity.

5) Multiple-choice questions.

6) True/False and don't say activity about the text "Securing Online Transactions: A Cryptography Guide".

7) Socialize the vocabulary about the reading "Blockchain Security - All You Need to Know"

8) Reading: "Blockchain Security - All You Need to Know".

9) Filling-in-the-blank activity about the previous reading.

10) Matching activity about the previous reading

11) Categorization activity about the previous text.

MATERIALS

- Reading: "Securing Online Transactions: A Cryptography Guide".

https://blog.daisie.com/securing-online-transactions-a-cryptography-guide/

- Reading: "Blockchain Security - All You Need to Know"

https://www.knowledgehut.com/blog/blockchain/blockchain-security

COLOMBIA POTENCIA DE LA VIDA

TIC

TALENTO TECH

AZ | PROYECTOS EDUCATIVOS

UTP Universidad Tecnológica de Pereira