COLOMBIA POTENCIA DE LA VIDA

TIC

BOOTCAMP BLOCKCHAIN

INNOVADOR- Módulo 1

TALENTO TECH | AZ PROYECTOS EDUCATIVOS | UTP Universidad Tecnológica de Pereira

Contextualización de mis aprendizajes

Understanding network security and consensus mechanisms is crucial in the landscape of blockchain technology. Consensus mechanisms serve as the backbone of blockchain networks, ensuring that transactions are securely validated and recorded across distributed nodes. This topic delves into the various consensus algorithms employed by different blockchain platforms, such as Proof of Work (PoW), Proof of Stake (PoS), and Delegated Proof of Stake (DPoS), among others.

Learners will explore the intricacies of each consensus mechanism, including their strengths, weaknesses, and implications for network security and decentralization. By grasping these concepts, learners can gain insights into how consensus mechanisms contribute to the immutability, integrity, and resilience of blockchain networks, thereby enhancing their understanding of network security in decentralized systems.

Objetivo general

UNIDAD 6

- Provide learners with a comprehensive understanding of network security within blockchain technology, focusing specifically on consensus mechanisms.
- Equip learners with the knowledge and skills to analyze and evaluate different consensus algorithms, including Proof of Work (PoW), Proof of Stake (PoS), and Delegated Proof of Stake (DPoS).

Competencias a desarrollar

•Linguistic competence. •Pragmatic competence. •Sociolinguistic competence.	**1.Linguistic Competence:** Learners can enhance their linguistic competence by acquiring specialized vocabulary related to blockchain technology and network security. They will develop the ability to understand and use technical terms, concepts, and terminology associated with consensus mechanisms, such as PoW, PoS, DPoS, and others. **2. Pragmatic Competence :** Learners will develop pragmatic competence by gaining practical skills in analyzing and evaluating different consensus mechanisms. They will learn how to apply theoretical knowledge to real-world scenarios, assess the strengths and weaknesses of various consensus algorithms, and make informed decisions about their suitability for specific blockchain applications. **3. Sociolinguistic Competence:** Through discussions on decentralization, immutability, and other blockchain attributes, learners can develop sociolinguistic competence by understanding the social and cultural contexts in which consensus mechanisms operate. They will explore the impact of consensus mechanisms on decentralization efforts, governance models, and community dynamics within blockchain networks.

Unit 6: Network Security: Consensus mechanisms

Tiempo de ejecución: 4 horas

PLANTEAMIENTO DE LA SESIÓN	MATERIALES
1) Socialize the idiom of the day. 2) Discussion questions about network security. 3) Socialize keywords of the reading "What is Network Security?" 4) Reading "What is Network Security?" 5) Multiple-choice activity about the previous reading. 6) Matching heading activity about the reading "What is Network Security?" 7) Pre-reading: Keywords about the reading "What Is a Consensus Mechanism?" 8) Reading: "What Is a Consensus Mechanism?" 9) Multiple choice activity. 10) True/false activity about the previous text.	• Reading "What is Network Security?" • Reading: "What Is a Consensus Mechanism?"

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