Welcome Web3: An Introduction to Decentralized Digital Age for Educators

Course Syllabus

Course Description

The purpose of this professional development course is to equip educators with a deep understanding of Web3 technologies and their practical applications in education. From blockchain for secure credentialing to the role of Decentralized Autonomous Organizations in school governance, participants will explore a range of topics that directly impact instructional pedagogy, school design, and systems of education. By the course's end, educators will be ready to integrate Web3 tools and concepts into their educational strategies and systems.

This course enhances classroom teaching effectiveness and supports improved student outcomes by introducing new knowledge in decentralized tech like blockchain, digital identity, and open credentialing, to empower educators with tools for secure, learner-centered, and future-ready edu-ecosystems.

Course Objectives

At the end of this course you should be able to:

1. Understand the basic concepts of Web3, differentiate it from Web2, and identify its impact on systems of teaching and learning.
2. Examine the ethical and regulatory landscape of Web3 technologies, focusing on data privacy and student safety in online learning platforms.
3. Comprehend the mechanics of blockchain technology and envision its role in secure credentialing and student records management.
4. Gain an understanding of cryptocurrencies, tokens, and DeFi to conceptualize new models for fundraising, grants, and student financial aid.
5. Learn the architecture of decentralized applications (dApps) and assess their potential in creating more equitable and interactive educational platforms for learning.
6. Grasp the concept of Non-Fungible Tokens (NFTs) and explore their role in authenticating student work and digital portfolios.
7. Understand the structure and function of DAOs, focusing on community-driven decision-making in school governance and curriculum development.
8. Investigate how AI and VR can be harmoniously integrated into Web3 technologies for personalized learning paths and immersive educational experiences.

Modules

- Module 1: Introduction to Web3, Quiz 1
- Module 2: Ethics and Regulation in Web3 for Education, Quiz 2

- Module 3: Understanding Blockchain: Securing Credentials and Managing Student Records, Quiz 3
- Module 4: Tokenizing Education: A Frontier in Financing and Decision-making, Quiz 4
- Module 5: Decentralized Applications in Education: Transforming Platforms for Equitable and Interactive Learning, Quiz 5
- Module 6: Navigating NFTs: Authenticating and Elevating Student Creations, Quiz 6
- Module 7: Community-Powered Education: DAOs in School Governance and Curriculum Design, Quiz 7
- Module 8: The Educational Metaverse: AI and VR in Web3 for Personalized and Immersive Learning, Quiz 8

Grading

Each quiz must be passed at an 80% or higher (three attempts allowed).

Format

This is a self-paced, asynchronous (no required live meetings) course. Throughout the PD course, you will find it helpful to take notes along the way to assist with the quizzes. Within each module, you will find reflection assessments that are not graded but will help in your journey through the course.