Blockchain learning: can crypto-currency methods be appropriated to enhance online learning?

Conference or Workshop Item

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Blockchain learning:

Can crypto-currency methods be appropriated to enhance online learning?

A talk by Peter Devine | Wednesday 9th December – 2015, 11:00am – 11:30am
ALT ONLINE WINTER CONFERENCE 2015 | altc.alt.ac.uk/online2015

Institute of Educational Technology, The Open University
What is Blockchain?

Peter Devine – Institute of Educational Technology. The Open University
Blockchain: Blueprint for a New Economy

Melanie Swan

Peter Devine – Institute of Educational Technology. The Open University
Can crypto-currency methods be appropriated to enhance online learning?

Bitcoin; an online currency and payment system...

Peter Devine – Institute of Educational Technology. The Open University
MegaBigPower
CEO Dave Carlson inside North America’s biggest bitcoin mine as of April 2014.
1 Bitcoin = £261.9

Exchange rate calculated using USD Bitcoin price via Preev.com
06 December 2015, 23.00hrs

Blockchain Learning –

Can crypto-currency methods be appropriated to enhance online learning?

Peter Devine – Institute of Educational Technology. The Open University
Can crypto-currency methods be appropriated to enhance online learning?

Example of a Bitcoin address:
3J98t1WpEZ73CNmQviecrnyiWrnqRhWNLy

Example of a Private key:
******************************
- Can crypto-currency methods be appropriated to enhance online learning?
What is Blockchain?
Can crypto-currency methods be appropriated to enhance online learning?

Peter Devine – Institute of Educational Technology. The Open University
– Can crypto-currency methods be appropriated to enhance online learning?

For information regarding Smart Contracts
Ethereum.org

Peter Devine – Institute of Educational Technology. The Open University
What is Blockchain?
Can crypto-currency methods be appropriated to enhance online learning?
Last block
Total BTC sent: 34800.53716661
Transaction amount: 2453
Received: 26.71085276 BTC
Time: 16:18 06/12/2015

Selected transaction
Click on the moving transaction to select it.

00:08:29
Time since last block

youtu.be/kVRzyY6zhoo
What is Blockchain Learning?
Blockchain: Blueprint for a New Economy

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– Can crypto-currency methods be appropriated to enhance online learning?
Can crypto-currency methods be appropriated to enhance online learning?

Centralised

Peter Devine – Institute of Educational Technology. The Open University
Can crypto-currency methods be appropriated to enhance online learning?
Can crypto-currency methods be appropriated to enhance online learning?

\[
\text{Income & Expenditure} = \text{Teaching & Learning}
\]

Peter Devine – Institute of Educational Technology. The Open University
What is Blockchain Learning?

- Can crypto-currency methods be appropriated to enhance online learning?
Can crypto-currency methods be appropriated to enhance online learning?

Academic development

Educational finance

Peter Devine – Institute of Educational Technology. The Open University
Can crypto-currency methods be appropriated to enhance online learning?
What is Blockchain Learning?
Example 1

A possible application of The Blockchain in learning and teaching –

Expose the student learning record to the public

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Example 2
A possible application of The Blockchain in learning and teaching –

Offsetting costs of learning using peer-to-peer network

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Can crypto-currency methods be appropriated to enhance online learning?
Next steps and conclusion

Peter Devine – Institute of Educational Technology. The Open University