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

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

Example of a Bitcoin address:
3J98t1WPez73CnmQviEcRnyiWrnqRhnWnlY

Example of a Private key:
******************
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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: 34801.33715651
Transaction count: 2453
Revealed: 26.71055275 BTC
Time: 16:48 09/12/2015

Time since last block

Selected transaction
Click on the moving transaction to select it.

youtu.be/kVRzlY6zho0
What is Blockchain Learning?
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-- Can crypto-currency methods be appropriated to enhance online learning?
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Centralised

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De-centralised

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Income & Expenditure = Teaching & Learning

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Academic development  

Educational finance

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What is Blockchain Learning?
Example 1

A possible application of The Blockchain in learning and teaching –

Expose the student learning record to the public
– Can crypto-currency methods be appropriated to enhance online learning?

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

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

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