



WEBINAR on BLOCKCHAIN and its implication

Organised By :- BCA & BBA Dept
Bidhan Chandra College
Asansol

On 09th June, 2021 Wednesday at 3 pm

Blockchain is a peer-to-peer decentralized distributed ledger technology that makes the records of any digital asset transparent and unchangeable and works without involving any third-party intermediary. It is an emerging and revolutionary technology that is attracting a lot of public attention due to its capability to reduce risks and frauds in a scalable manner.

Esteemed Keynote Speaker



Dr. Souvik Basu
HOD, Computer Application
Heritage Institute of Technology, Kolkata

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Dr. Falguni Mukhopadhyay
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Registration Free

Last Date :- 08th June, 2021

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Workshop Link will be shared on 8th June, 2021 at 8 pm

Title:Blockchain and its implications

Speaker Bio: Dr.SouvikBasu is HOD, Computer Application, Heritage Institute of Technology,Kolkata

Ph.D in Computer Science and Technology from Indian Institute of Engineering Science and Technology, Shibpur.M.Tech in Computer Science WBUT, MCA from B.U,B.Sc in Statistics from Ramakrishna Mission residential College,Narendrapur(C.U).He has more than 18 years experience in academic and research.His research interests include delay tolerant networks, decentralized security systems,trust management, mathematical modeling blockchain technologies and ICT leveraged social applications.He has several publications in high impact journals and top tier international conference proceedings.He has been the Co-Principal investigator of several Govt. of India funded R&D projects.

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Why a Webinar on **Blockchain**???

- Have you seen the news lately?
 - ☐ Cryptocurrency
 - ☐ Bitcoin
 - ☐ Ethereum
 - ☐ Blockchain for E-governance
 - ☐ Blockchain for supply chain management
 - ☐ Blockchain for energy management
- Is it just a hype?
 - ☐ Hopefully this webinar will teach you otherwise
 - ☐ Even if you do not care about cryptocurrency and its market volatility



souvik basu

You

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79 others





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Bank Frauds

- You find a check was used to pay someone but you never wrote the check
 - Someone forged your check and/or signature
- You did sign a check for x amount, but the amount field was modified
 - How do you prove to the bank that an extra 0 was not there in your signing time?
- The monthly statement says that you did a transaction but you did not recall or the amount of a transaction is different from what you had done
 - Someone got your password, and possibly redirected OTP to another SIM (SIM Fraud)
 - Bank employees themselves might have done something
- How do you argue to the bank? (Non-repudiation)
- How do you argue that the amount was modified? (Integrity)
- Finally, do you tally your transactions when you receive your monthly statement?
 - Most people do not

souvik is presenting



souvik



Pratap Shankar



You



Biswajit 85 others





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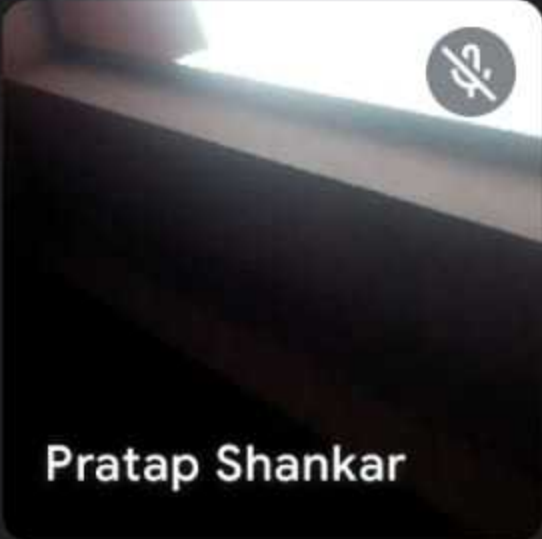
Bank Frauds

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Pratap Shankar



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BLOCKCHAIN & ITS APPLICATIONS

PROOF OF WORK BITCOIN MINING

MERKLE TREE ? TRANSACTION

DOUBLE SPENDING ETHEREUM

 SUPPLY CHAIN

Dr. Souvik Basu
Heritage Institute of Technology, Kolkata

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How Do You Transact?

- You write a check or do internet transaction to pay a payee
- Bank checks if you have balance > transaction amount
 - If yes, it debits your account by $\text{balance} = \text{balance} - \text{transaction_amount}$
 - credit's payee's account by $\text{payee.balance} = \text{payee.balance} + \text{transaction_amount}$
 - If no, the transaction is invalid and rejected.
- You can check your transaction list online, or check the monthly statement
- Who maintains the ledger?
 - Bank Does
 - What if Bank allows an invalid transaction go through
 - Invalid = you did not authenticate the transaction
 - Invalid = your balance was not sufficient but transaction was made



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WEBINAR CERTIFICATE

This is to certify that **Dr Souvik Basu** of Heritage Institute of Technology , Kolkata delivered invited lecture entitled “**Blockchain and its Implications**” in the Webinar on “**Blockchain and its Implications**” at Department of Professional Studies(BBA and BCA), Bidhan Chandra College , Asansol, Pachim Bardhaman , West Bengal , India on 09th June, 2021.

Rajdip Chatterjee

Convenor

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