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| Date of Event | Knowledge Manthan |
| Name and Type of Event | Knowledge Manthan on <ol style="list-style-type: none"> 1. Shell Structures: Engineering Characteristics and Applications 2. Blockchain and its applications |
| Conducted by | Dr. Anupam Kumari |
| Number of Participants | 35 |

The Resource person **Prof. Kamalika Das** and **Prof. Manoj Kumar Dixit** are Assistant Professor of the School of Engineering and IT, ARKA JAIN University, Jamshedpur.

The speaker gave informative and illuminating lecture with valuable content. The session was very valuable for Faculties, Researcher and Students.

Shell structures have higher strength with respect to their self-weight. Shell structures are used to cover a large area. It is very simple in design and has more strength as compared to other types of Structures. Steel structures are structurally continuous and it can transfer loads in a number of directions.

The Blockchain is an encrypted, distributed database that records data, or in other words it is a digital ledger of any transactions, contracts - that needs to be independently recorded. The most exciting feature of Blockchain is that it greatly reduces the possibilities of a data breach.

Topic of Knowledge Manthan:-

1. Shell Structures: Engineering Characteristics and Applications
2. Blockchain and its applications

Date:-22nd January 2022

Convener:- Dr. Anupam Kumari

About the Speaker:-

The Resource person **Prof. Kamalika Das** is Assistant Professor of the School of Engineering and IT, ARKA JAIN University, Jamshedpur

The Resource person **Prof. Manoj Kumar Dixit** is Assistant Professor of the School of Engineering and IT, ARKA JAIN University, Jamshedpur

Venue and Participants:-

Knowledge Manthan was conducted online on Google Meet Platform. **Total participants attended were 35**

Event Poster



Event Pics

Knowledge Manthan (2022-01-21 at 22:34 GMT-8)

Load Transmission in Shell Structures



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Kamalika Das

Knowledge Manthan (2022-01-21 at 22:34 GMT-8)

APPLICATION

Single and Double Curvature

Singly curved shells



Barrel Shell for Bakery

- This roof system has multiple bays in each direction.
- A unit is composed of two circular elements as shown.
- There are no horizontal ties at the columns.
- Shells are ideal for bakeries because of the hard surfaces and few horizontal surfaces to catch dust.

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Kamalika Das

APPLICATION

Single and Double Curvature

Singly curved shells



Bus Station Salto, Uruguay



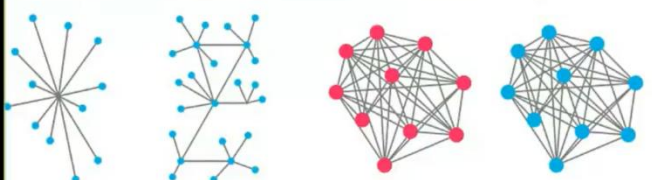
Kamalika Das



Manoj Dixit

Network Types

Centralized Decentralized Distributed Ledgers



The New Networks

Distributed ledgers can be public or private and vary in their structure and size.

Public blockchains
Require computer processing power to confirm transactions ('mining')

- Users (●) are anonymous
- Each user has a copy of the ledger and participates in confirming transactions independently
- Users (●) are not anonymous
- Permission is required for users to have a copy of the ledger and participate in confirming transactions

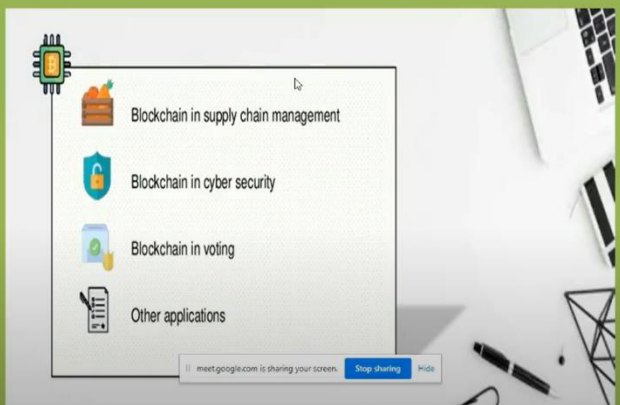
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What's in it for you?



- Blockchain in supply chain management
- Blockchain in cyber security
- Blockchain in voting
- Other applications

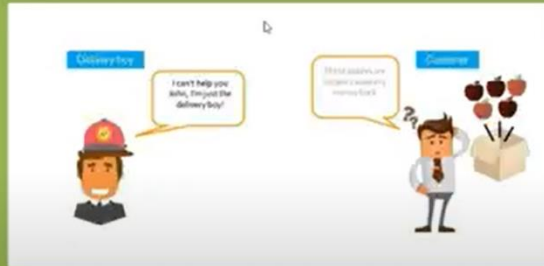
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Supply Chain Management- Before Blockchain



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