

**AICTE ATAL Sponsored 5 days Faculty Development Program on
Blockchain
(14 – 18, December 2020)**

A five-day academic leadership and Faculty Development Program is organized in the Faculty of Engineering and Technology department, **Gurukul Kangri University** on the subject of BLOCKCHAIN is being organized under the AICTE ATAL scheme from 14 to 18 December 20. In which around 140 participants from around 100 different institutes and 20 states participated.

The speakers of the 5 day FDP on “Blockchain” were: **Dr. Shankar Goenka, Dr. Mayank Aggarwal, Prof. Ashok Das (IIIT Hyderabad), Dr. Rakesh Tripathi, NIT Raipur, Dr. Bala Prakasa Rao Killi, NIT Warangal, Mr. Madhu Parvathenini, Strategist at Mad block Technologies Pvt. Ltd, Dr. Suyash Bhardwaj is an Assistant Professor in Department of CSE, Mr. Somesh gupta, Mr. Hiren Patel, Mr . Mani Madhukar(IBM)**

The inaugural session was held on 14 December 2020. **Dr. Mayank Aggarwal** addressed all the participants and welcomed them in joining the ATAL sponsored FDP on Blockchain. Dr. Aggarwal thanks AICTE ATAL Academy director Dr. R.K. Soni, Dr. G.L. Garg and all members of AICTE. He told about the FDP in detail to the participants and motivated them to be present on all sessions to make FDP a success. He also told the need and benefits of Blockchain.

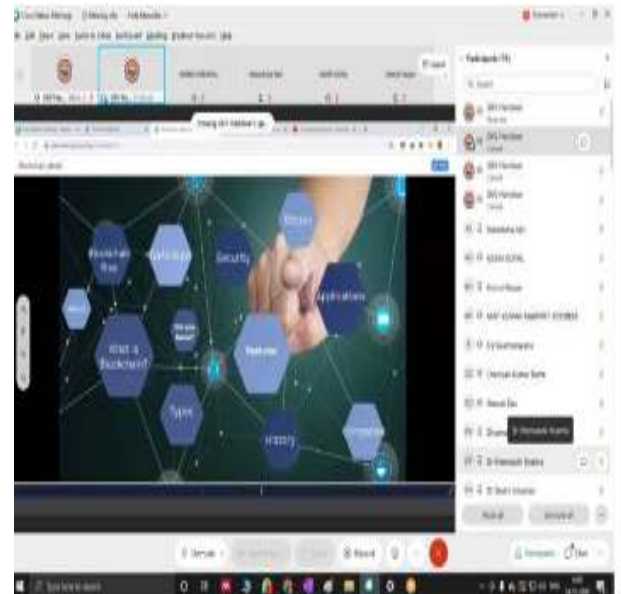
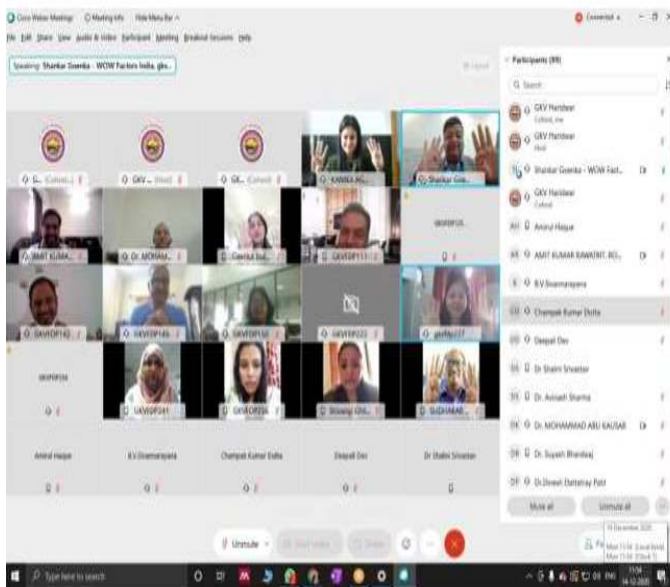
After that Prof. Pankaj Madan, Dean, Faculty of Engineering and Technology, and Director FDP gave a welcome address to all the respected faculties. After him, **Mr. Sushil Chandra, TCS, Prof. S.K. Yadav, JJTU, Rajasthan, Prof. H.S. Dhami, Ex. VC, Kumaun University, Nainital, congratulated all organizers.**

Prof. Amita Dev, VC, IGTUW- Delhi, also addressed all the participants. She motivated all the participants and told the importance of Blockchain. She also congratulated all the organizers and expressed her thanks for being invited.

Respected **Prof. Roop Kishore Shastri**, Vice Chancellor Gurukul Kangri University congratulated **Prof. Pankaj Madan** and **Dr. Mayank Aggarwal** all his organizing committee for organizing this program at the National level, he said that a successful teacher is also a successful guide. Program Co-coordinator **Dr. Suyash Bhardwaj**, ended the inaugural function with vote of thanks to all and shanti path.

The inaugural ceremony was moderated by **Dr. Mayank Aggarwal**.

About 100 participants in the program joined from various institutions of the country like the University of Calcutta, and made the FDP successful. Mainly from Kerala, Andhra Pradesh, Assam, Bihar, Chhattisgarh, Delhi, Goa, Gujarat, Haryana, Himachal Pradesh, Jammu and Kashmir, Karnataka, Madhya Pradesh, Maharashtra, Odisha, Puducherry, Punjab, Rajasthan, Telangana, Uttar Pradesh, Uttarakhand, West Participants from 23 states like Bengal and Tamil Nadu participated in the FDP.



10:43 AM

Elliptic Curve Digital Signature Algorithm

Signature generation

To sign a message, say m , an entity A with domain parameters $D = (p, n, G, G, E_p(a, b), H(\cdot))$, where $H(\cdot)$ is a secure hash function and associated key pair (k, Q) does the following steps:

- Step 1. Select a random or pseudo-random integer t , with $1 \leq t \leq n-1$.
- Step 2. Compute $(G = (x_1, y_1))$ and $r = x_1 \bmod n$. If $r = 0$ then go to step 1.
- Step 3. Compute $s = H(m)$ and $s = t^{-1}(s + kr) \bmod n$. If $s = 0$, then go to step 1.
- Step 4. A 's signature for the message m is (r, s) .

APPLICATIONS OF DESIGN THINKING IN BLOCKCHAIN

What is blockchain?

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Layout

Agenda...

1. Blockchain – the next Frontier
2. Blockchain – Key Properties & Limitations
3. Blockchain Use Cases – an Evolutionary Framework
4. IEC: International Trade Finance
5. IEC: Syndicated Loan Servicing
6. IEC: Payments Crop Insurance
7. IEC: Flight Delay Insurance
8. Use Cases in Retail
9. Use Cases in Healthcare
10. Use Cases in Education
11. Use Cases in Government

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