

Dayananda Sagar College of Arts, Science & Commerce

Department of MCA

Technical Seminar on "Blockchain Technology"

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The Seminar on "Blockchain Technology" was organized for 2Sem MCA and 4Sem MCA students on 10th April 2019. Dr. Sagaya Aurelia, professor - Christ University Bangalore had delivered the session.

The seminar was conducted on April. 10, 2019 by dept. of MCA(BU) of Dayananda Sagar Institution. Dr. Sagaya Aurelia, professor at Christ University Bangalore. She has teaching experience both in India and overseas universities. She has published more than 20 papers in international journals, 20 papers in international conferences and 10 in national conferences. She is also a member of many professional bodies such as Internet society, South Asia Institute of Science and Engineering (SAISE), International Association of Engineers, International Economics Development Research Center and International Association of Computer Science and Information Technology.

Dr. Sagaya Aurelia began her seminar by providing basic information and technology involved in BLOCK CHAIN. She briefed about the history and founder of blockchain. Later explain the concept through pictorial representation, work process involved in block chain.

Blockchain, the technology behind the Bitcoin crypto-currency system, is considered to be both alluring and critical for ensuring enhanced security and (in some implementations, non-traceable) privacy for diverse applications in many other domains - including in the Internet of Things (IoT) eco-system. Intensive research is currently being conducted in

both academia and industry applying the Blockchain technology in multifarious applications. Proof-of-Work (PoW), a cryptographic puzzle, plays a vital rôle in ensuring BC security by maintaining a digital ledger of transactions, which is considered to be incorruptible.

Technology Fundamentals of Blockchain

A Blockchain comprises of two different components, as follows:

1. Transaction:

A transaction, in a Blockchain, represents the action triggered by the participant.

2. Block:

A block, in a Blockchain, is a collection of data recording the transaction and other associated details such as the correct sequence, timestamp of creation, etc.

The Blockchain can either be public or private, depending on the scope of its use. However, the data in the blocks are encrypted by a private key and hence cannot be interpreted by everyone.

Another major advantage of the Blockchain technology is that it is decentralized. It is decentralized in the sense that:

- There is no single device that stores the data (transactions and associated blocks), rather they are distributed among the participants throughout the network supporting the Blockchain.

- The transactions are not subject to the approval of any single authority or have to abide by a set of specific rules, thus involving substantial trust as to reach a consensus.

- The overall security of a Blockchain ecosystem is another advantage. The system only allows new blocks to be appended. Since the previous blocks are public and distributed, they cannot be altered or revised.

Blockchain, the technology behind cryptocurrency brought forth a new revolution by providing a mechanism for Peer-to-Peer (P2P) transactions without the need for any intermediary body such as the existing commercial banks. BC validates all the transactions and preserves a permanent record of them while making sure that any identification related information of the users are kept incognito. Blockchain thus appears to be the ideal "Trust Machine" paradigm. In fact, Bitcoin is just an exemplary use of the Blockchain.

In the cloud environment, the history of the creation of any cloud data object and its subsequent operations performed thereupon are recorded by the data structure mechanism of 'Data Provenance', which is a type of cloud metadata. Thus this is very important to provide the utmost security to the data provenance for ensuring its data privacy, forensics, and accountability. Liang et al. put forward a Blockchain based trusted cloud data provenance architecture,

'ProvChain', which is fully decentralized. Such adoption of the Blockchain in a cloud environment can provide strong protection against records being altered thus enabling enhanced transparency as well as additional data accountability. This also increases the availability, trustworthiness, privacy and ultimately the value of the provenance data itself. In an IoT ecosystem, most of the communication is in the form of Machine-to-Machine (M2M) interactions.

The seminar was knowledge building and highly informative about BLOCK CHAIN as it brought knowledge about The application of the Blockchain concept and technology has grown beyond its use for Bitcoin generation and transactions. The properties of its security, privacy, traceability, inherent data provenance and time-stamping has seen its adoption beyond its initial application areas. The Blockchain has been especially identified to be suitable in developing nations where ensuring the trust is of major concern. Thus the invention of the Blockchain can be seen to be a vital and much needed additional component of the Internet that was lacking in security and trust before. BC technology still has not reached its maturity with a prediction of five years as novel applications continue to be implemented globally. The speaker used to graphical and pictorial representation to explain a concept which made easier to analyze the concept and make the environment more engrossing.

Faculty Coordinators:

1. Prof.KohilaKanagalakshmi
2. Prof.Sunitha



Pic-2: - Dr.Sagaya Aurelia delivering Lecture to MCA Students



Pic-2: - Thanking Dr.Sagaya Aurelia by our HOD-Prof. Suneetha V



Pic-3: - Group Photo

DAYANANDA SAGAR COLLEGE OF ARTS, SCIENCE AND COMMERCE

DEPARTMENT OF COMPUTER APPLICATIONS

REF:DSCASC/2019/075

10.04.2019

CIRCULAR

This is to inform that, a Technical talk is organized for MCA II Semester & IV Semester Students. The speaker is Prof.Sagaya Aurelia from Christ University.

The detail is mentioned below:

Venue: Seminar Hall

Subject: Blockchain Technology and its applications

Date: 10.04.2019

Time: 2.00 AM to 3.30 PM

All are cordially invited.



Technical Co-ordinators



HOD - MCA(BU).

DAYANANDA SAGAR COLLEGE OF ARTS, SCIENCE AND COMMERCE

DEPARTMENT OF COMPUTER APPLICATIONS

Sl.No.	Name of the Faculties	Signature
1	Mr. HEMANT UPPALA	
2	Mrs.SUNEETHA V	
3	Mrs. ARUNA DEVLIC	
4	Dr. KUMUDAVALLI.M.V.	<u>KV</u>
5	Dr. KAVITHA .S	
6	Mr. GURUNATH .R	
7	Mrs. SARA KUTTY.T.K	
8	Mrs.NIVETHITHA	
9	Mrs. SRIVATSALA V	V. Sivabala
10	Mrs. AMTHUL HAI	
11	Mrs. RANJINI K.S.	
12	Mrs. KOHILA KANAGALAKSHMI	
13	Mrs.SUNITHA M	
14	Mrs.SHWETHA H B	
15	Mr.RAM KISHORE	
16	Mrs.SRI RASHMI C N	
17	Ms.KEERTHI T R	
18	Mrs.MEENAKSHI	

Dayananda Sagar College of Arts, Science & Commerce

Technical talk on Blockchain Technology & its Applications

Date : 10/04/19

Semester : IV MCA

Time : 1:30 - 3:30

SNo	Reg no	Name	Signature
1	18CQSLC032	Tejaswini S. Majjigi	
2	18CQSLC018	Parika P.K	
3	18CQSLC029	Suman. n	
4	18CQSLC003	Anupama. M. Sivasangi	
5	18CQSLC003	Ranjitha	
6	18CQSLC013	Musani Poojitha	
7	18CQSLC027	Sneha. R. V	
8	18CQSLC033	Veda D. V	
9	18CQSLC019	Pooja. L.	
10	17CQSA010	Gowda Deepa Narsimha	
11	17CQSA006	Bhoomika Raj	
12	17CQSA024	Suma Kawath. v	
13	18CQSLC005	Deepthi Acharya	
14	17CQSA008	Deepika. S	
15	17CQSA007	Deepan	
16	18CQSLC002	Anil Kumar	
17	18CQSLC017	Paran. B	
18	18CQSLC026	Shyams varthar. M	




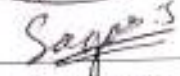
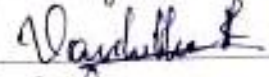

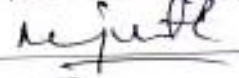

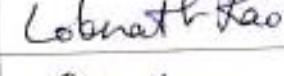
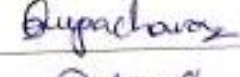
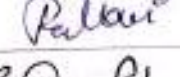
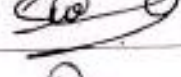

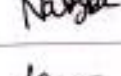


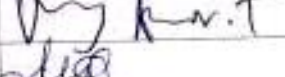

Dayananda Sagar College of Arts, Science & Commerce

Technical talk on Blockchain Technology & its Applications

Semester : IV MCA

Date : 10/04/19

Time : 1:30 - 3:30

SNo	Reg no	Name	Signature
1.	17CQSA0026	Raviraj Karanth	
2.	17CQSA0004	Arvind . A	
3.	18CQSLC030	Sunil . L	
4.	17CQSA0020	Sagar . J	
5.	17CQSA0027	Vasantho . R	
6.	17CQSA0017	Alkhite Jais A N	
7.	17CQSA0015	Manjunath . P	
8.	17CQSA0023	Shreyas . B. H.	
9.	17CQSA0014	Loknath Rao .	
10.	18CQSLC010	Krupa Chavan . A	
11.	18CQSLC016	Pallavi . L	
12.	18CQSLC031	Sushmita . H. K	
13.	18CQSLC021	Priyanka	
14.	18CQSLC014	Navya	
15.	17CQSA0011 18CQSLC011	Kamala	
16.	18CQSLC024	Sailesh . K	
17.	18CQSLC024	Vijaykumar . T	
18.	18CQSLC036	Yashwanth . K. T	

Dayananda Sagar College of Arts, Science & Commerce
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Semester : IV MCA

Date : 10/04/19

Time : 1:30 - 3:30

SNo	Reg no	Name	Signature
1	17CQSA012	Karthik C.V	Karthik C.V
2	17CQSA002	Abhishek V	Abhishek V
3	18CQSL001	Akash Bharathi	Akash
4	18CQSL005	Vinod Kumar	Vinod
5	18CQSL006	Dhanush Kumar Yadav	Dhanush
6	17CQSA018	Pallavi D	Pallavi
7	17CQSA003	Arpitha S.R	Arpitha
8	17CQSA028	Vasun K.S	Vasun
9	17CQSA014	Loknath Rao R.	Loknath
10	17CQSA016	Najma Khan Cp	Najma
11	17CQSA021	Shabarish V	Shabarish
12	17CQSA009	Deepu N	Deepu
13	18CQSL015	Nithya B.S	Nithya
14	18CQSL020	Poornima	Poornima
15	18CQSL025	Sangeetha Sagar	Sangeetha
16	18CQSL011	Lithin D	Lithin
17	18CQSL009	Kishore H	Kishore
18	18CQSL012	Mona S	Mona



Dayananda Sagar College of Arts, Science & Commerce
Technical talk on Blockchain Technology & its Applications

Semester : II MCA

Date : 10/04/19

Time : 1:30 - 3:30

SNo	Reg no	Name	Signature
1	18CQSAU12	Sharon Thomas 'akeri'	
2	18CQSAU03	Bhavyashree.P	Bhavyashree.P
3.	18CQSAU16	Niharika Sinha	
③4	18CQSAU020	Eshas	
4.	18CQSAU005	Manoj Nekkanti	
5	18CQSAU009	Sainath	
6.	18CQSAU019	Stalin	
7	18CQSAU017	Somanna	
8	18CQSAU008	N. Pramod	
9	18CQSAU015	Shekhar.B	
10	18CQSAU014	shabaz	
11.	18CQSAU001	Aditya Pete	
12	18CQSAU011	Pathyanarayanan.k	
13	18CQSAU002	Anjali	
14	18CQSAU021	Sushma.S	
15	18CQSAU018	SEI VIJYA TK	
16.	18CQSAU010	SALLA-H-D2VYA	
17	18CQSAU004	Chaitanya .P.S	