ANNUAL REPORT

Department of Mathematics, Aryabhatta College

Academic Session- 2021-22

Webinar: Convection – Diffusion Model
Date: 28th Jan 2022

About the Speaker:

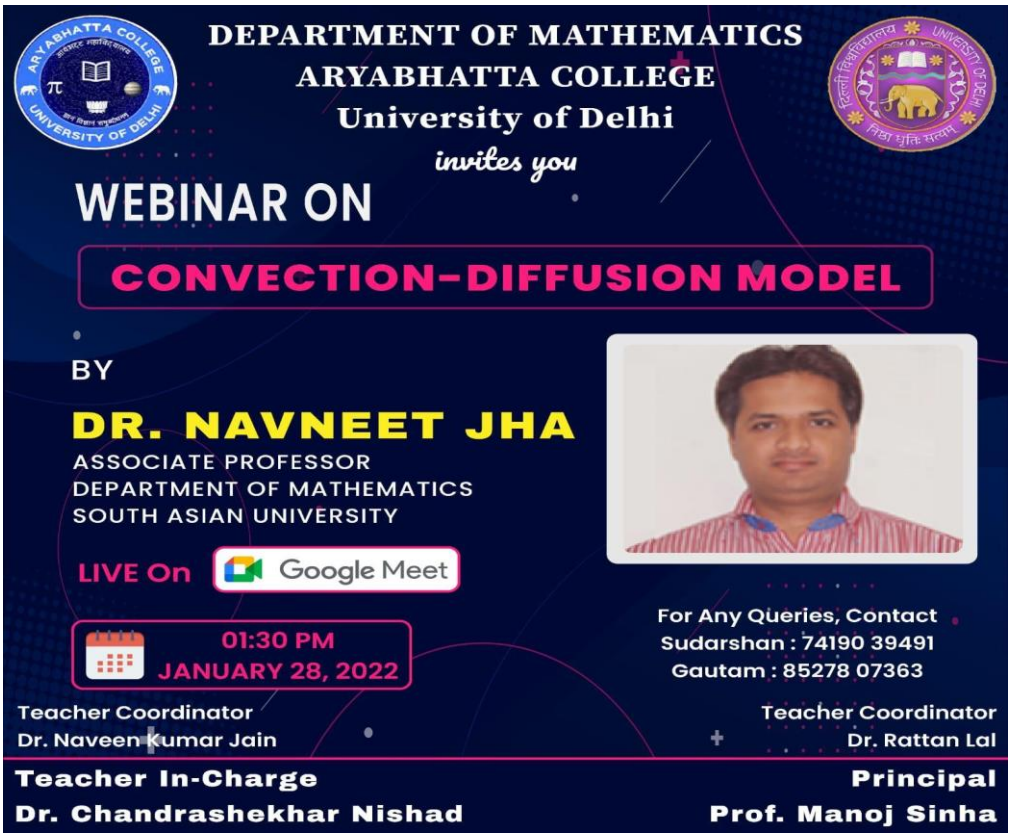
Dr. Navnit Jha is an Associate Professor in the Department of Mathematics at South Asian University. He has completed his Ph.D. from University of Delhi in 2004. He has more than 10 years of teaching experience at graduate and postgraduate level. His research area includes 'Scientific Computing, Parallel Algorithms, and Differential Equations' and he published many research papers on National and International level in the same area.

About The Talk:

The Department of Mathematics of Aryabhatta College organized an online talk on the topic "Convention-Diffusion Model" by Dr. Navnit Jha. The talk began with a welcome note by honorable principal, Prof. Manoj Sinha, of the college who encouraged the students to participate in the talk and thanked Dr. Jha to accept the invitation to deliver the talk. The talk was very fruitful, all the faculty members and almost 80+ students participated in the talk. First of all Dr. Jha explained basic terminology related with the topic. Then, he exhibited a number of examples and described how the Convention-Diffusion Model can be associated with real life. He also discussed various research scopes available in this topic. He motivated to those students to pursue research in this area, who are in particular interested in applied mathematics. Further, he explained different applications of parabolic partial differential equations, studied by the students at graduate level in Convection effect, Diffusion transport interaction, Option pricing, Fluid flow, Image processing and Information processing. The speaker concluded his talk by briefly explained about Divided difference formula, Higher order approximations, Quantum Derivative, and Fractal Derivative.

At the end, Dr. Naveen Kumar Jain presented the vote of thanks to the speaker, for delivering such an informative talk in such a nice manner, and to the principal for all his kind support in organizing the talk. He also paid a vote of thanks to the teacher in-charge of the department, Dr. Chandrashekhar Nishad, all the faculty members and participants to make the event successful.

Some glimpses:


DEPARTMENT OF MATHEMATICS
ARYABHATTA COLLEGE
University of Delhi
invites you
WEBINAR ON
CONVECTION-DIFFUSION MODEL
BY
DR. NAVNEET JHA
ASSOCIATE PROFESSOR
DEPARTMENT OF MATHEMATICS
SOUTH ASIAN UNIVERSITY
LIVE On
Google Meet
01:30 PM
JANUARY 28, 2022
For Any Queries, Contact
Sudarshan : 74190 39491
Gautam : 85278 07363
Teacher Coordinator
Dr. Naveen Kumar Jain
Teacher Coordinator
Dr. Rattan Lal
Teacher In-Charge
Dr. Chandrashekhar Nishad
Principal
Prof. Manoj Sinha

GAUTAM CHANDRA
Aryabhatta College
Naveen Kumar Jain
Prof. Manoj Sinha
Urja Dewan
SAATVIK BANSAL
64 others
You
Navnit Jha
1:33 PM | WEBINAR ON "CONVECTION-DIFFUSION M...

Prof. Manoj Sinha
Navnit Jha
GAUTAM CHANDRA
Aryabhatta College
Naveen Kumar Jain
AAKANKSHA Singh
68 others
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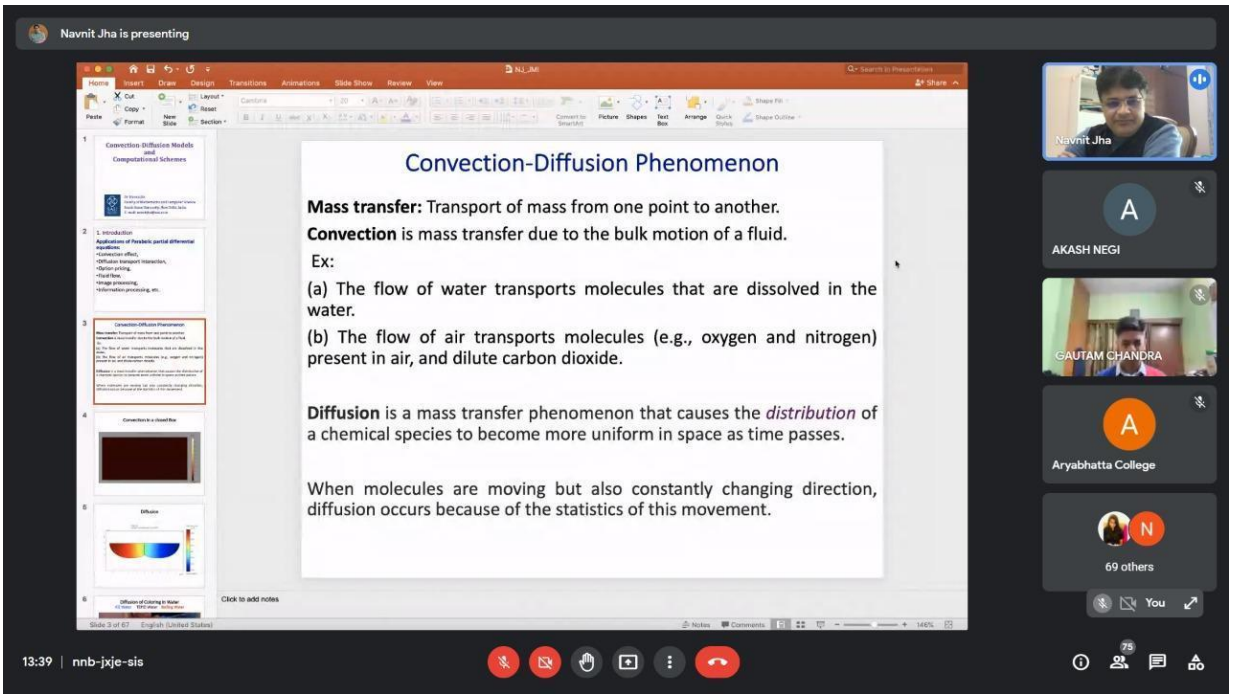
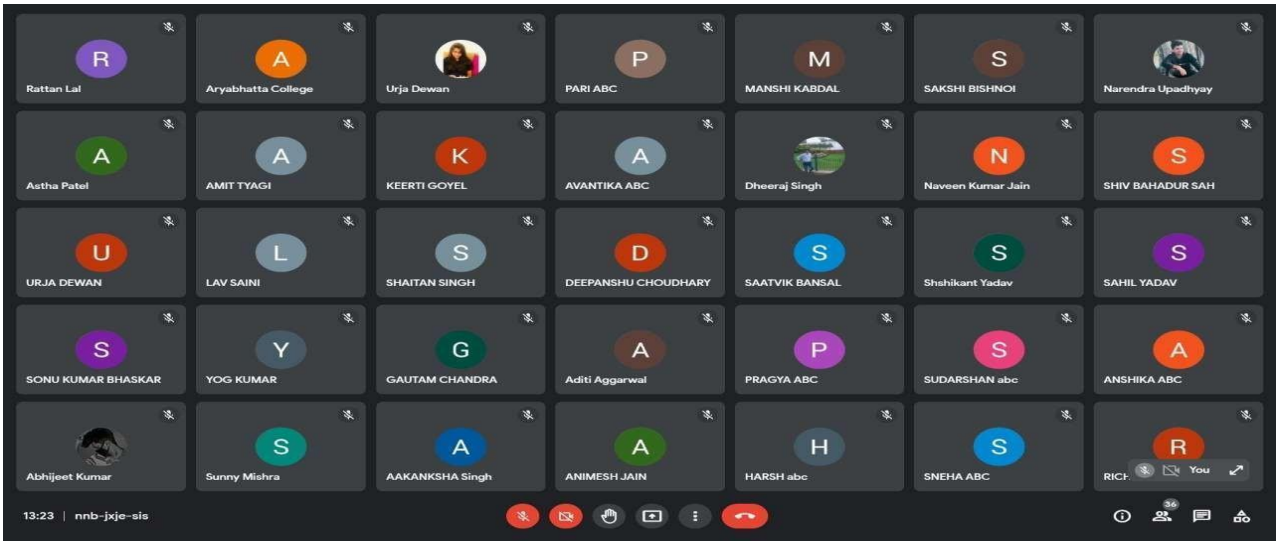
13:35 | nnb-jxje-sis


Navnit Jha is presenting
Convection-Diffusion Phenomenon
Mass transfer: Transport of mass from one point to another.
Convection is mass transfer due to the bulk motion of a fluid.
Ex:
(a) The flow of water transports molecules that are dissolved in the water.
(b) The flow of air transports molecules (e.g., oxygen and nitrogen) present in air, and dilute carbon dioxide.
Diffusion is a mass transfer phenomenon that causes the distribution of a chemical species to become more uniform in space as time passes.
When molecules are moving but also constantly changing direction, diffusion occurs because of the statistics of this movement.
Navnit Jha
AKASH NEGI
GAUTAM CHANDRA
Aryabhatta College
69 others
You
13:39 | nnb-jxje-sis


Rattan Lal
Aryabhatta College
Urja Dewan
PARI ABC
MANSHI KABDAL
SAKSHI BISHNOI
Narendra Upadhyay
Astha Patel
AMIT TYAGI
KEERTI GOYEL
AVANTIKA ABC
Dheeraj Singh
Naveen Kumar Jain
SHIV BAHADUR SAH
URJA DEWAN
LAV SAINI
SHAITAN SINGH
DEEPANSHU CHOUDHARY
SAATVIK BANSAL
Shshikant Yadav
SAHIL YADAV
SONU KUMAR BHASKAR
YOG KUMAR
GAUTAM CHANDRA
Aditi Aggarwal
PRAGYA ABC
SUDARSHAN abc
ANSHIKA ABC
Abhijeet Kumar
Sunny Mishra
AAKANKSHA Singh
ANIMESH JAIN
HARSH abc
SNEHA ABC
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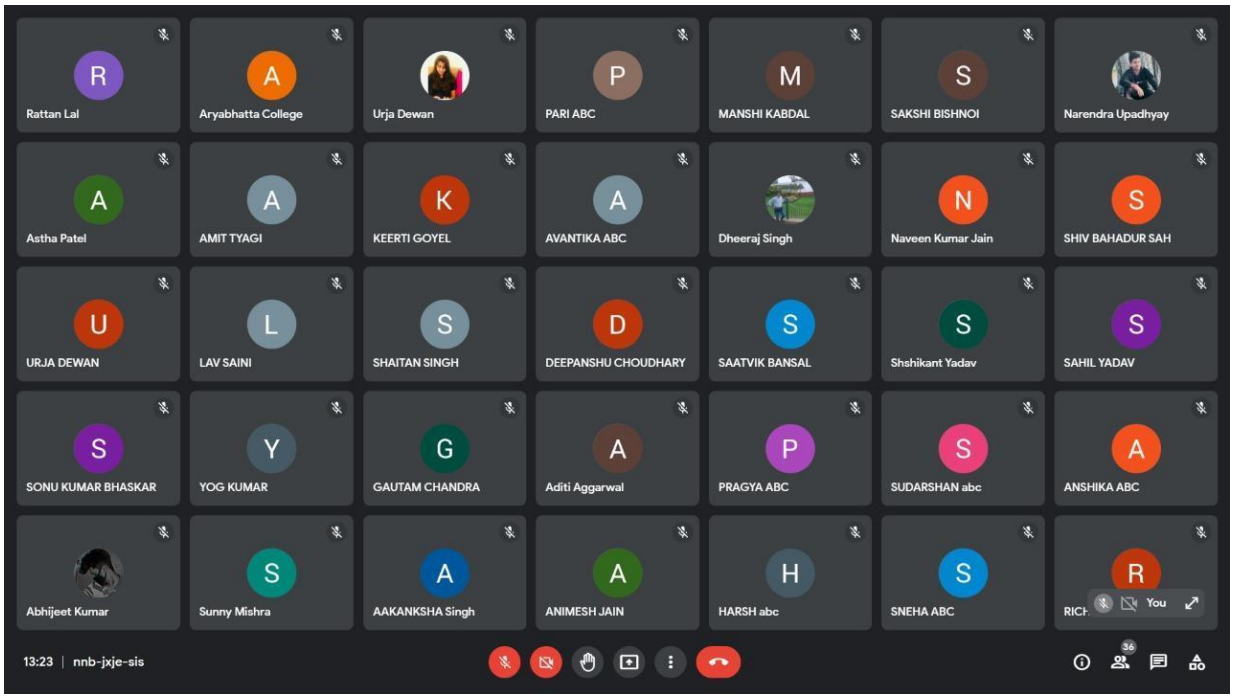
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SUDARSHAN abc
ANSHIKA ABC
Abhijeet Kumar
Sunny Mishra
AAKANKSHA Singh
ANIMESH JAIN
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SNEHA ABC
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Alumni webinar (Volume-1)

Date: March 5, 2022 (Saturday)
Time: 11:30am onwards
Venue/Platform: Google Meet

About the Speaker:
Mr. Mayank Bamola is a Data analyst at IHS Markit. He holds a bachelor's degree in Mathematics from Aryabhatta College (batch of 2016-19), University of Delhi. Currently, he is pursuing MCA from University School of information, Communication and Technology, GGSIPU.

The Event:
On March 5, 2022, the Department of Mathematics of Aryabhatta College conducted a webinar with career counselling as theme and our alumni Mr. Mayank Bamola as a speaker whose topic of the talk was **"A glimpse of my journey from confusion to clarity"**. The webinar began with an introduction of the speaker by our student coordinator Ms. Avantika. The introduction to the event was given by the teacher-coordinator Ms. Aakanksha Singh who further invited our respected Principal (Prof.) Dr. Manoj Sinha to deliver the welcome address and formally open the session. Principal Sir shed light on how this topic of the webinar is imperative for the students to clear all their confusions about what to do after graduation, and thanked Mr. Bamola for agreeing to conduct this fruitful session.
Further, Mr. Bamola elucidated on the basics of how the topic is relevant and necessary for the students for clearing all their doubts. He started by talking about his journey from a student to a working professional. He said that the major problem with all students is that they don't know what to do after graduation and that confusion is the first step towards clarity.
He told us about the options that we have after doing B.Sc. (Hons) Mathematics. If we are really interested in Mathematics then we should go for M.Sc. (Maths), M.Sc.(Stats), or MSc.(Statistics/Operational Research). The other option is going for government jobs like SSC, Banks, UPSC, etc. Another line of options could be IT Sector by doing MCA, MBA, Masters in Data Science, etc.
Next in order, he briefed about the different languages we can learn like Python, R, Java, C++, etc. to have more scope for getting the jobs. Lastly, he talked about the preparation for the placement drive. After the talk, the students asked plentiful queries and the speaker gladly catered to all of them.
To sum up, the webinar was elucidative and extremely constructive for the students. In the end, Avantika presented the vote of thanks, thanking Mr. Bamola for the immensely insightful session, Principal sir (Prof.) Dr. Manoj Sinha for all his support, Dr. Chandrashekhar Nishad (Teacher-in-Charge) and Ms. Aakanksha Singh (Teacher Coordinator) and other faculties of the Mathematics Department for making this event successful.

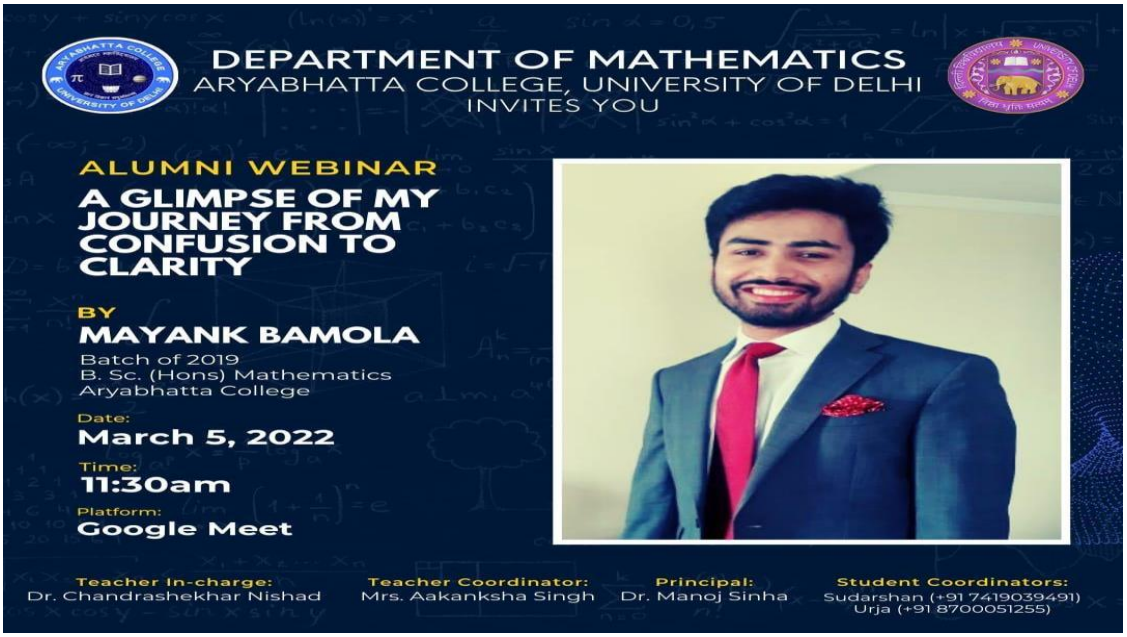
Faculty members who attended the event-
Dr. Manoj Sinha (Principal sir)
Prof. Narender Kumar
Dr. Naveen Kumar Jain
Ms. Aakanksha Singh
Dr. Chandrashekhar Nishad
Shri Dheeraj Kumar

Student Organisers-
Gautam Chandra, MAT/20/40 (President)
Urja Dewan, MAT/20/42 (Vice President)
Aditi Aggarwal, MAT/20/41 (Secretary)
Ashutosh Bhatia, MAT/20/46 (Joint Secretary)
Saatvik Bansal, MAT/20/19 (Treasurer)
Sudarshan, MAT/19/3

Avantika, MAT/21/45
Keerti Goyel, MAT/21/18
Udit Kumar Roy, MAT/21/52
Astha Patel, Mat/21/25
Aaryan Nandwani, MAT/21/14
Manya Shah, MAT/21/34
Manshi Kabdal, MAT/20/59

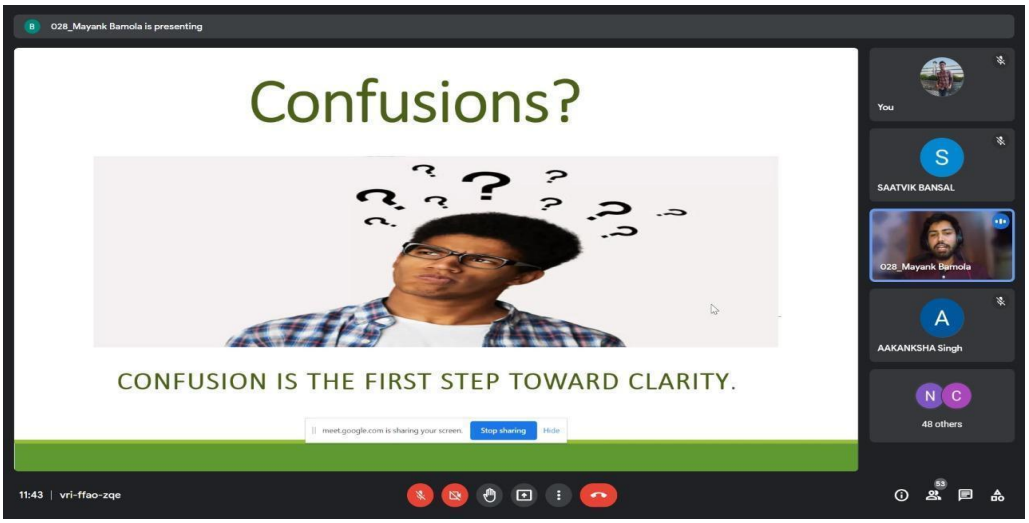
Student Attendees-
The event was attended by 46 students from the department.

Event Poster:



Event Gallery:

028_Mayank Bamola
AAKANKSHA Singh
Narender Kumar
URJA DEWAN
SAATVIK BANSAL
Chandrashekhar Nishad
AYUSH RAJ
Urja Dewan
Aryabhatta College
Sakshi Bishnoi
Muskan Rana
JATIN ABC
You
11:27 | vri-ffao-zqe


028_Mayank Bamola is presenting
Confusions?
CONFUSION IS THE FIRST STEP TOWARD CLARITY.
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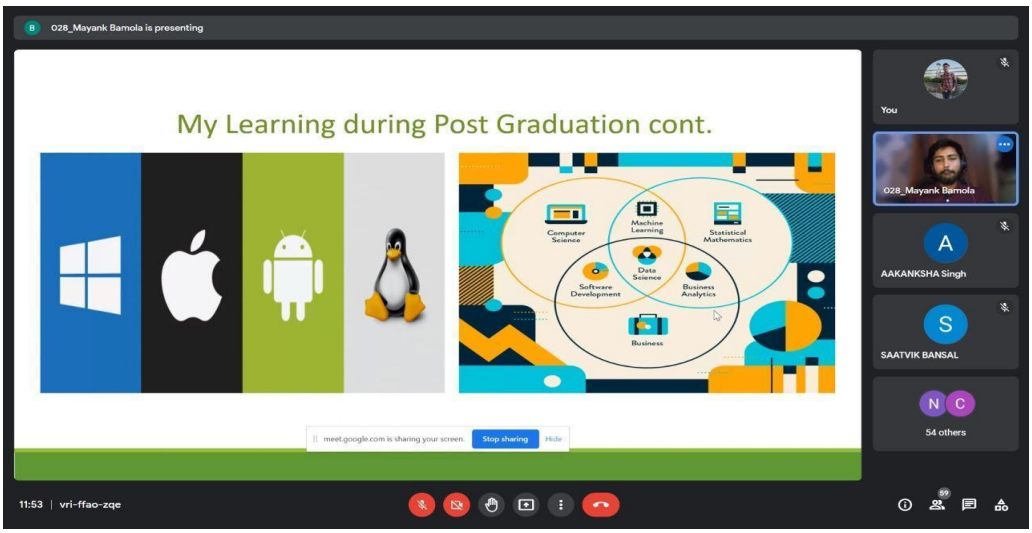
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My Learning during Post Graduation cont.
Computer Science
Machine Learning
Statistical Mathematics
Data Science
Software Development
Business Analytics
Business
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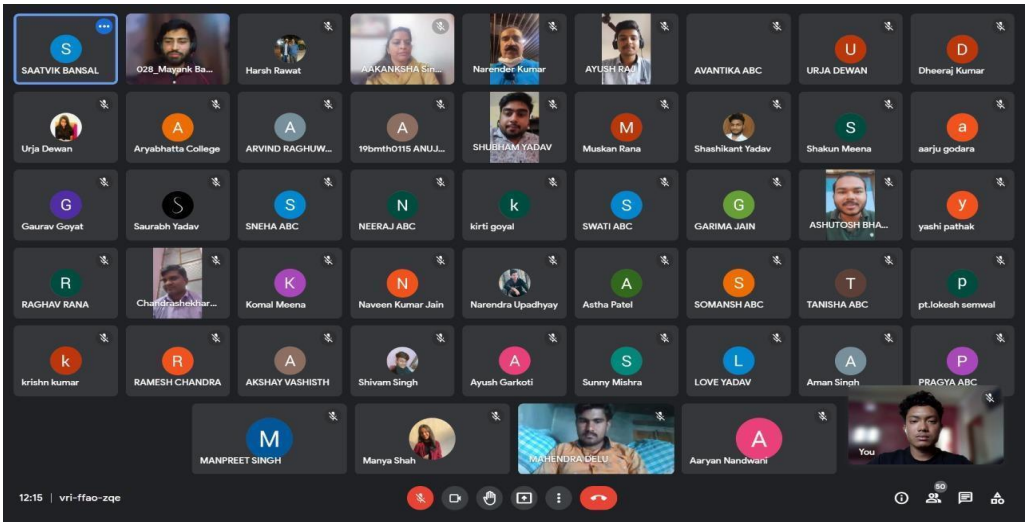

Annual festival : ∑igma'22

Date: 18-19April 2022

The department of Mathematics at Aryabhatta College organized their Annual Fest- **∑igma'22** on 18-19 April 2022, 12pm-6pm. It was a two-day event filled with a lot of activities and games. The list of events is as follows:

1. **Speaker Session:**
   Invited a renowned professor from our college, **Dr. Devender Singh** to give a lecture on the topic "Teachings of Aryabhatta". This was followed by a movie screening on the life of Aryabhatta. The event took place in the conference room, and all the first- and second-year students from the department of mathematics were in attendance.

2. **Chess**
   This event consisted of multiple rounds of chess matches between participants from across Delhi University. There was a total of 47 participants, and the event took place in the sports room.

3. **Table Tennis**
   This event consisted of multiple rounds of Table Tennis matches, and the winner of each match qualified for the next round. There were over 25 participants from across Delhi University, and the event took place in the sports room.

4. **Treasure Hunt**
   6 teams from our college participated in this event. The teams were given color-coded tags, and one hint on the entry point, and further hints were hidden across the entire college. Each team had to solve 5 riddles to reach the final prize.

5. **Open Mic**
   The open mic session was held in the area in front of the library, where interested students got an opportunity to showcase their talents in a non-competitive manner.

Fest Gallery:

Volunteers:

1. Gautam Chandra (President)
2. Urja Dewan (Vice President)
3. Aditi Aggarwal (Secretary)
4. Ashutosh Bhatia (Joint Secretary)

5. Saatvik Bansal (Treasurer)
6. Avantika Mishra (I)
7. Somansh (I)
8. Udit Kumar Roy (I)
9. Aaryan Nandwani (I)
10. Manya Shah (I)
11. Medha (I)
12. Astha (I)
13. Kirti (I)
14. Pragya (I)
15. Anushka (I)
16. Manshi (II)
17. Raj Singh (II)
18. Shubham (II)
19. Ayush Raj (II)
20. Manpreet (II)