



Miranda House

UNIVERSITY OF DELHI

Departmental Annual Report - 3

Departmental Activities: Curriculum and Beyond

Department: Mathematics

Year: 2020-21

Department Society and its Office Bearers:

SANKHYA, SOCIETY OF DEPARTMENT OF MATHEMATICS			
President	Vice-President	General Secretary	Treasurer
Divya Gupta	Deeksha Mishra	Ananya Gupta	Deeya Bhatia

Teacher In Charge: Dr. Daulti Verma

STAFF ADVISORS, DEPARTMENT OF MATHEMATICS			
Dr. Ritu Gupta	Dr. Meetu Bhatia Grover	Dr. Shweta Gandhi	Mr. Manoj Rawal

Part B.1

Seminars/conferences/workshops conducted by the Department

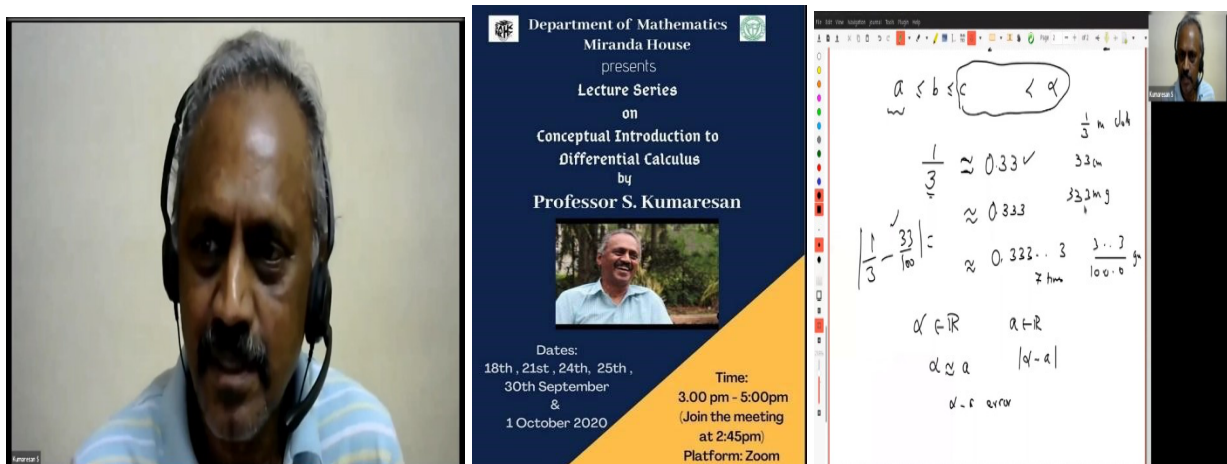
- 1. LinkedIN Profile Building - Networking and building connections** has proved to be the backbone for career advancement, with this on September 4th 2020 with 70 participants. Our society held a '**LinkedIN Profile Building**' seminar with Mr Daksh Sethi, which imparted crucial soft skills essential for one's career.



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2. **Differential Calculus Lecture Series-** A week-long lecture series organized at the end of September 2020, supplemented our knowledge of **differential calculus** substantially, with Professor S Kumaresan who provided profound insights into the **concepts and analysis** of the field. 80 students across the departments of Mathematics, Physics, Chemistry and Applied Physical Science of Miranda House participated in the lecture series with gusto. The lectures were followed by sessions where students were able to engage in meaningful discussion of the information gained during the lectures and clarified their doubts with the guidance of mentors. From epsilon-delta definitions, multivariable limits to Cauchy-Schwarz inequality, the students deepened their perspective on innumerable concepts.

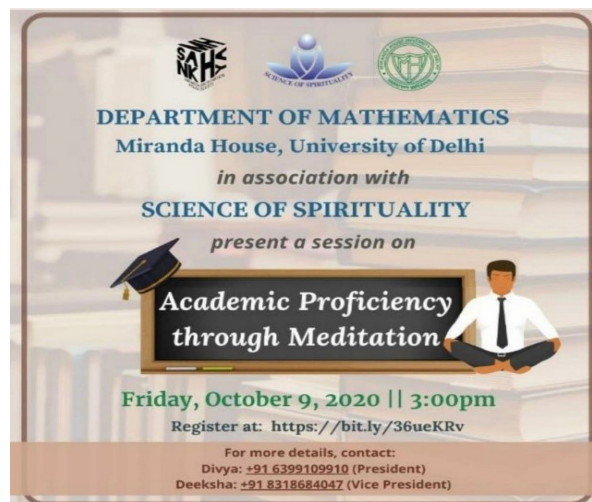


3. **Academics and-Spirituality** methods when imbibed in **mathematics** help in improving productivity and proficiency by manifold in the subject. The same was inculcated among the students with '**Academic**



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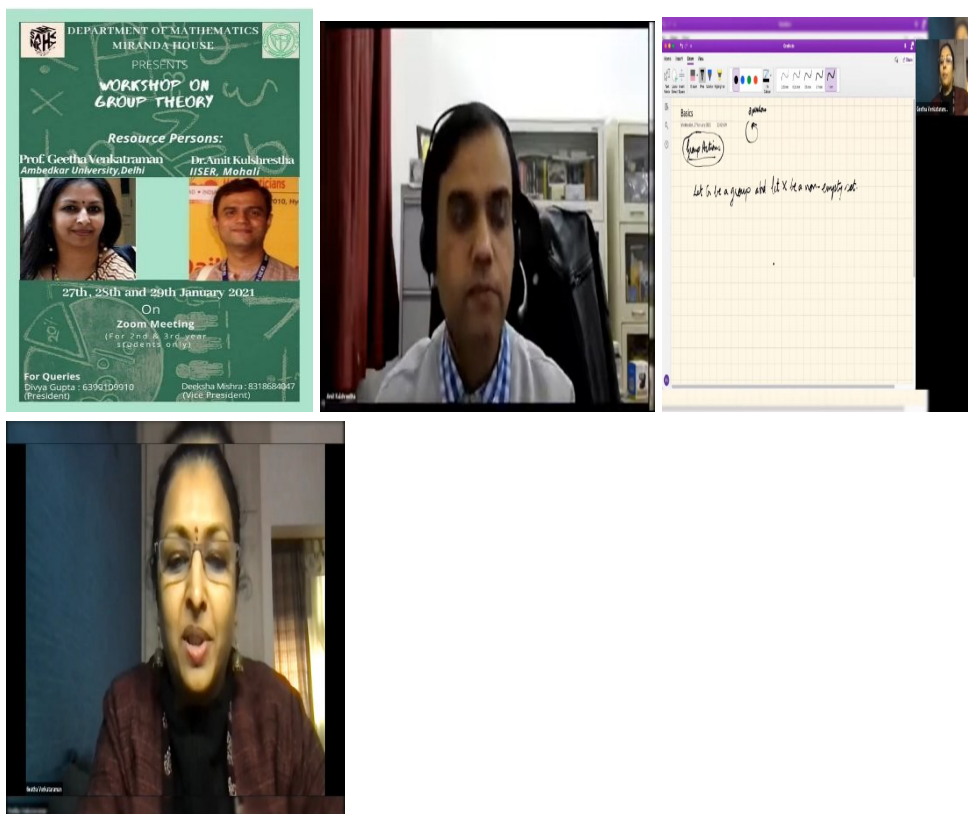
Proficiency through Meditation’ webinar on 9th October in collaboration with ‘Science of Spirituality’ with 80 participants .



- Group Theory Workshop-** We didn't let the pandemic hinder our work, in the academic domain, a 3 days (27, 28, 29 January 2021) workshop **on Group Theory** with 70 participants was held under the guidance of Professor Geetha Venkataraman, Department of Mathematics, Ambedkar University and Dr Amit Kulshrestha, Associate Professor(IISER Mohali) and 6 other mentors. The outstandingly **informative lecture series** faciled the abstractness of the subject which is otherwise dreaded by the students. Intriguing concepts like symmetry, platonc solids, and rotational matrices, were learned by students with the help of various out-of-the-box examples. The webinar ended with positive feedback from all the participants, a motivational speech by the professors, and a thank-you note by the hosts. More than 70 students across different Delhi University colleges participated in the workshop.



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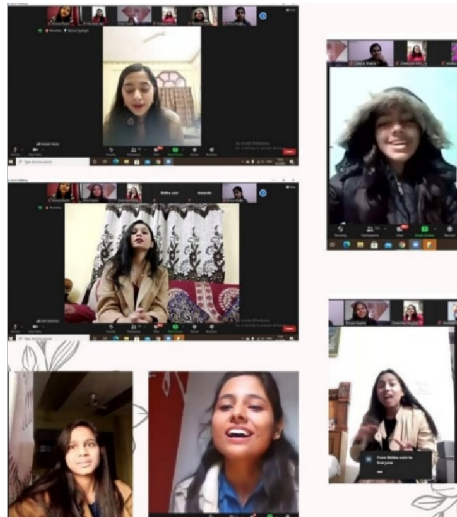
Part B.2

Extension Activities organized

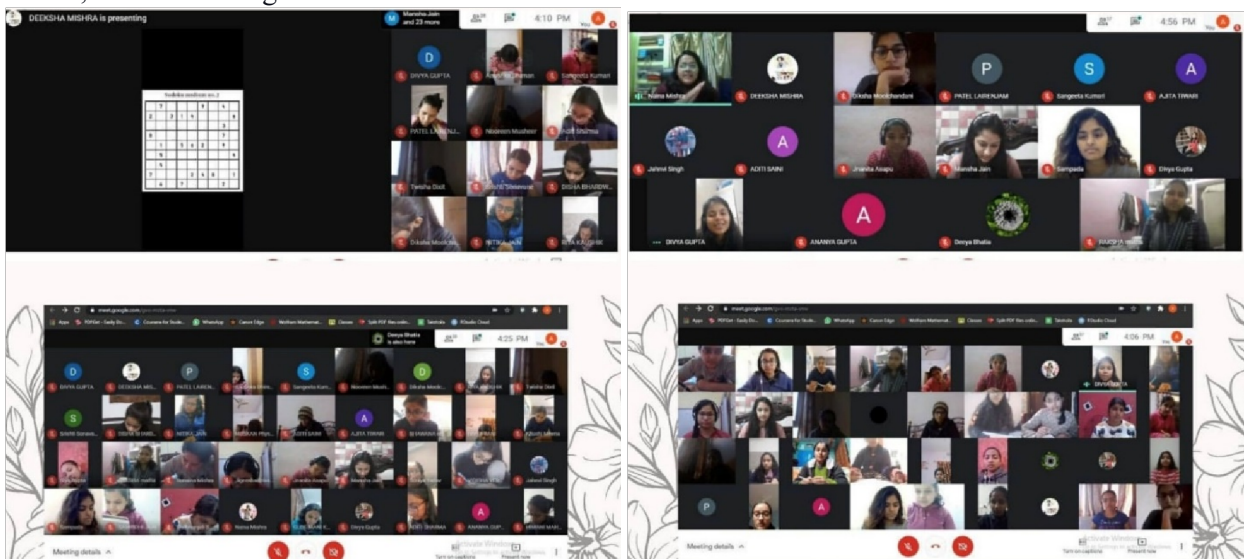
1. **Fresher's Orientation-** The new academic session was kicked off with full vigour and gusto with the Fresher's Orientation. The 'Batch of 2023', got a never-seen-before fresher's experience on 5th February 2021. The freshers connected with the seniors and were in awe of the anecdotes they shared. .



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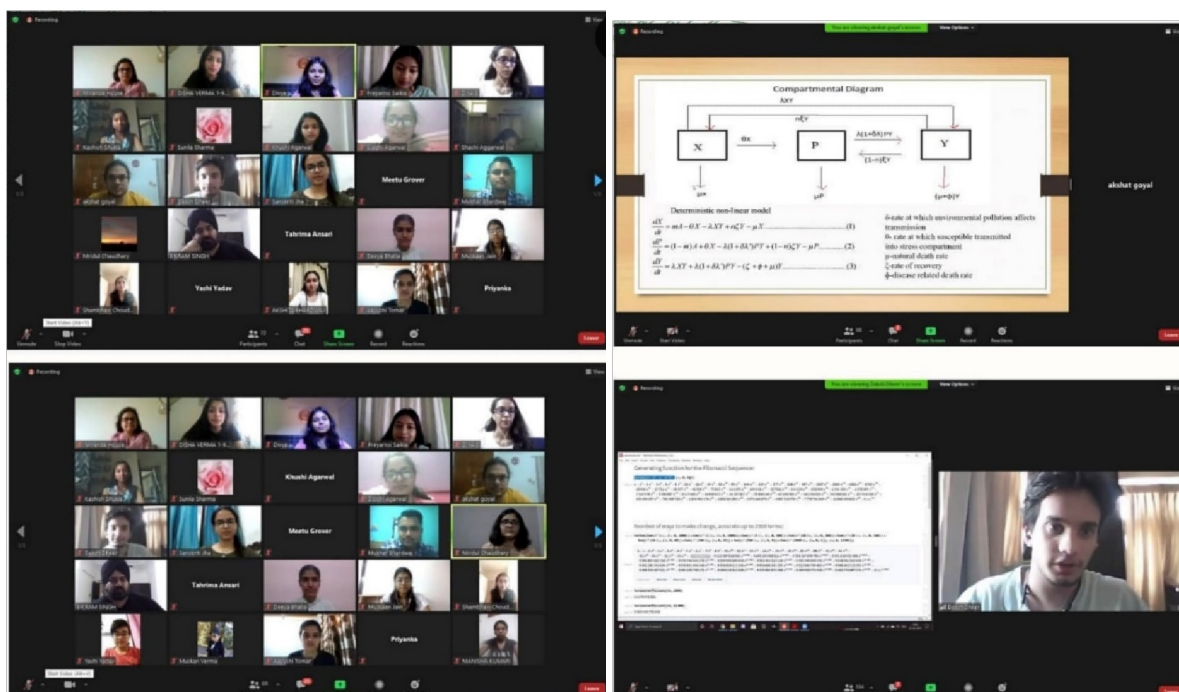
2. **Sudoku Wars 3.0-** Carrying the legacy of Sudoku Wars forward, the 3rd edition was held on January 14, 2020, as a welcoming of the freshers.





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3. **Origin 2021**- Our annual fest, Origin 2021 was held completely online with the 'FRAME THE MOMENT'-THE ONLINE PHOTOGRAPHY COMPETITION and the ONLINE PAPER PRESENTATION COMPETITION. The fest ended on a zesty note in the presence of an amiable crowd.



4. **Farewell**- The session came to a denouement with the Farewell of the 2021 batch in a poignant manner. From our instagram handles filled with memories of seniors on Farewell eve to the launch of Mathletics 2020-21, the seniors were left tear clad with bundles of memories to cherish for years to come.



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Part B.3

Any other event organized as part of students' activities (not listed above)



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MESSAGE FROM THE STAFF ADVISORS

We present to you with pride and cheer, the third issue of "Mathletics", the Mathematics Department's annual magazine. The year 2019 has been an eventful year for the department to crack a smile which includes the thoughts, efforts and passion of the young ignited minds and hence we have come up with the annual issue of the magazine. The articles in the magazine connect the dots and capture the spirit of the passing year and the magazine offers a free rein to the imaginations of young thinkers. It has been an absolute pleasure for us to come up with another issue of "Mathletics" and I hope that you will find the experience of reading this just as pleasurable. I express my sincere gratitude to Joya, Shreya and the entire editorial team who worked hard to come up with this new edition. I thank from the bottom of my heart every single person associated with this magazine. Through this platform, I would like to thank our student union members Aparajita, Jahnvi, Divya and Singha whose continuous hard work and commendable efforts have made this beautiful journey possible. Further, I wish all the success and good luck to the passing batch.

With Best Wishes,
Apeksha
Staff Advisor (2019-20)



With utmost pleasure, we present to you Mathletics 2019-2020, the third edition of the annual magazine of the Department of Mathematics. The magazine which served as a newsletter, has over the years evolved into an entity in itself, encompassing the essence of our beloved Department. It contains the imprint of the love that all of us share for this beautiful subject. This edition is all the more unique in the sense that its production faced unprecedented barriers in the form of distance and a general atmosphere of uncertainty. However, after months of working hard, here we are with our labour of love. It is like to thank and congratulate Joya and Shreya and their team for producing this magazine with utmost conviction, hard work and love. It also extends my thanks to the Union members, Aparajita, Jahnvi, Singha and Divya for their support to the Editorial Board. I hope you all enjoy reading this edition of Mathletics.

Best wishes to all,
Dr. Monika Arora
Staff Advisor (2019-2020)



MESSAGES FROM THE EDITORS

The making of this magazine has been an arduous journey, but a greatly fulfilling one. Before COVID lockdown hit the city, we were well on our way to printing a complete magazine as per schedule. Halted by the sudden onset of a devastating disease, we retired to our homes abandoning all hope that this magazine would see the light of the day. But what emerged on the other end of the lockdown was something entirely unprecedented. The process began with reluctance and great difficulty: contributors struggled to continue creating for the magazine without their usual resources, teams struggled to coordinate online, digitalization of content became an uphill battle. Overwhelmed by feelings of distress and isolation, students of the Department mourned several losses, including those of important milestones and precious college life. It was then that we decided to renew our efforts to build a magazine like no other before, one that would remind everyone of the light at the end of the tunnel- the normalcy of a day in Room 227, the familiar faces of the CUs, the unforgettable taste of the canteen's samosas, the feeling of toasting off in the front lawn with the sun in your face. This edition of Mathletics is dedicated to the memory of what was and what soon will be, and I hope it reminds you of all that is good in the world.

This magazine wouldn't have been possible without my other half in everything I do, my spell check personified, Shreya. Her brilliant vision was brought to life by the endless talent and unrelenting efforts of the members of Editorial Board, who went above and beyond the call of duty. Shreya Ma'am, Monika Ma'am and Apeksha Ma'am's able guidance and motivating words brought this labour of love to life, without whom this magazine would still be in template stage, stuck in drafts of March. I would also like to thank Aparajita, Jahnvi, Singha, and Divya, for their time and energy, and unparalleled unbounded passion for this project. Mathletics 2019-2020 is the reflection of a Department that stands united against all odds. To that end, I hope we did justice to the students of this Department. I thank you all for making this magazine complete. Here's hoping we meet soon.

-Joya Singh



JOYA SINGH



SHREYA THERAPAT

Ironically for someone who has dealt with words and sentences for over a year on a daily basis, I find it very hard to pen down this message (an ironically clichéd start as well). But as they say, the beginning is as good as any other place to start. Being selected as one of the editors over a year ago was probably the highlight of my year. I recognize myself as a writer, thus to produce scores of pages full of the creative intellect of others and mine had always been a cherished dream. I remember finishing an entire tub of chocolate ice cream in my excitement to start working on the magazine with the team. And work hard we did. We were blessed with the most amazing bunch of individuals who were hard working, tolerant and highly efficient. With their help we were able to introduce a blog which was updated with summaries of news events and comprehensively compiled information on prospective careers.



(L-R): DR. MANJARI SRIVASTAVA, DR. VIMLA KAUSHIK (RETIRED), MS. GARIMA GOGIA, MR. SHUBHAM, DR. DURVESH VERMA, DR. MEETU BHATIA GOYER, MS. APEKSHA, DR. RITU GUPTA, MS. LALITA DHAR (RETIRED), MR. BIKRAM SINGH, MS. BIHAWNA BANSAL GUPTA, MR. MANOJ RAWAL, MR. MONIKA ARORA, MR. MOHIT MACCHIAL, DR. SUNIL SHARMA, DR. SHWETA GANDHI

