

2020 Quantum

The official newsletter of the Department of Mathematics, LSR

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MESSAGE FROM THE TEACHER IN-CHARGE



Greetings,

I congratulate the Editorial Board, Quantum 2020, for the successful release of 'Quantum', the information bulletin of Department of Mathematics. I am pleased to see the way our young journalists/reporters have presented the plethora of activities, whether academic or non academic, held during the academic year 2019-20. I appreciate our students, who have used this platform to showcase their talent in the form of artwork, articles, mathematical games etc. I would also like to congratulate our young achievers and wish the Graduating Batch, 2017-20 for success in their future endeavours. I am sure that the reader will get an insight into how extremely engaging, enlightening and eventful this year had been.

Dr. Monika Singh
Teacher In-Charge
Department of Mathematics



PANELISTS OF ENIGMA 2020 WITH THE TEACHERS AND STUDENTS OF THE DEPARTMENT



LAMP LIGHTING CEREMONY, ENIGMA 2020



DEPARTMENT PHOTOGRAPH 2019-20



GRADUATING BATCH OF 2020



ENIGMA 2020 ORGANISING COMMITTEE



ENIGMA 2020 DECOR



ENIGMA 2020 DECOR



ENIGMA 2020 DECOR

EDITORIAL BOARD

New year, new Quantum! We are very excited to unveil the annual edition of Quantum. This year has been phenomenal, and the department has been abuzz with activity. Here's presenting a flavour of all this, and more. The current COVID-19 situation has us all grappling with uncertainties. We hope we can be your constants amid this storm. Watch out for our Quarantine stories section! We would like to extend our heartfelt gratitude to the Department Teacher In-Charge Dr. Monika Singh, and the Association In-Charges Mr. Kuldeep and Ms. Reema Agarwal for their constant support and guidance. Further, we would like to thank everyone who sent in their work to be published. Feel free to reach out to us if you have any suggestions for Quantum. Your suggestions will help us take Quantum to greater heights! More power to all of us.



Rajlaxmi Adwant
3rd year



Nayana Nair
2nd year



Mihika Chitranshi
2nd year



Sanya Juneja
1st year

IN CONVERSATION WITH THE UNION 2019-20

GENERAL SECRETARY RAJSHREE CHANDEL



Question. What motivated you to rise up to expectations and keep working for the department?

Although all three of us were very self-motivated to work for the department, there were times when difficult situations dampened our spirits. In such situations, firstly, the unwavering support from Paridhi and Saumya kept me going. They never failed to assuage any tantrum I threw their way with their sarcastic, self-deprecating and often juvenile humour. All in all, there might have been difficult times but never a dull moment with the two women in question. Secondly, the support from the teachers and the students of the department helped me to push my boundaries. Every compliment, every reprimand, every suggestion and every word of criticism motivated me to strive for betterment. Besides, what is a Union without the students we represent, and I must say that the students of the Department of Mathematics were themselves so motivated and so enthusiastic throughout the year that we couldn't afford to fall behind.

Question. What was the most challenging aspect of being a union member?

Apart from the usual : ideas, proposals, signatures and approvals, the most challenging aspect of being a Union member is being inclusive and taking everyone along. As simple as it sounds, it can be extremely challenging to satisfy everyone in the department at once. There can always arise clashes in opinions, interests and needs of various groups. Often we had to juggle between innovative ideas and their feasibility, requirement and accessibility to all. In such a situation, an inclusive and impartial representation is achieved by prioritisation and compromise.

PRESIDENT SAUMYA SINGH



Question. What message would you like to give for the upcoming unions?

The upcoming time will be full of ups and downs but there is no need to get nervous as all this is a part of the learning process. Trust your teammates with whom you will be sharing the best moments and the lows. Just be confident of your ideas as our department always welcomes new ideas. Take out time to talk with department students as their friend and be accountable to them. Last but not the least, you should sometimes prioritize yourself too among the work and make sure to make friends along this journey and to appreciate your friends who were there with you since the start. At the end of the day, you will realise it was all worth it.

Question. What were your expectations as a union member and do you see your vision fulfilled?

Firstly, I have always wanted our department to be as inclusive as possible. I have always tried to ensure that people enjoy being a part of this family and for this very reason, we started our tenure with introducing the 'Performing Arts Committee' and the 'Peer Support Committee' to conduct activities to bring people together. Secondly, I have always realised that our students and teachers put in a lot to take this department to better heights. As a union member I have always tried to recognize and appreciate their contributions. I have always tried to make sure that students learn from our workshops and talks. As I look back now, I am satisfied that we three did our best and we hope that the forthcoming unions keep on raising the benchmarks.

TREASURER PARIDHI AGRAWAL



Question. What is the most important lesson you have learnt as a union member?

Being a part of the Department Union has been challenging and full of life lessons. The most important thing I have learnt being in the Union is that team work keeps us going and how necessary it is for completion of even a very small task. Ideating, organizing and successfully completing an event with complete satisfaction wouldn't have been possible without the three of us coming together and considering each and every view point which was put forward. Another very important thing that I have learnt is listening to several opinions and acting in a way that incorporates all of them without letting someone feel left out. It has been a great journey, full of ups and downs where the ups always enhanced my confidence and the downs transformed me into a better person everyday.

Question. How was your experience being a part of the union?

The journey has been truly amazing. Right from ideating, getting approvals, waiting for Principal ma'am for hours and getting sanctions to executing the event, getting appreciation and reimbursing the students, it all just happened smoothly. Being a part of the Union comes with several responsibilities to fulfill and requires one to stand strong because challenges are just complimentary with everything you plan on doing. I couldn't have asked for a better team. The experience could be summed up as a roller coaster ride which helped me to step out of my comfort zone while stressing, panicking, enjoying, laughing and crying with the other two wonderful ladies.

AN INTERVIEW WITH ÉCLAT EDITORS



Question. What is your advice for future members of the Éclat Ed-board?

Éclat's standard comes with its quality of work. So, be prepared (and excited) to work through the nitty-gritties of paper editing. There's so much to learn from repeatedly reading the review research works of the department. Rather than looking at your work as a duty, take the opportunity to learn from different topics. Further, as a member of the Editorial Board, it would help to gauge your own topics of interest in mathematics and know deeply about them. Finally, as Éclat evolves in many

ways, communication (with teachers and team members) and team-playing are must-haves to work efficiently. Work on these, if anything.

Ques. A lot of new steps were taken with regards to Éclat this year. Please take us through them. What is your outlook for Éclat?

Since its inception in 2010, this academic year has been a year of many great initiatives. The Éclat Editorial Board now comprises mathematics faculty from LSR, Delhi University and beyond the university too. This, together with the mentorship programme instituted this year, are sure to raise the standard and quality of Éclat. Further, a new section 'Contribution of Women in Mathematics' has been added to the journal, to celebrate and trace the contributions of female role models in the sciences. Éclat is evidently headed for greater heights. We hope that it will propel many students into deeper and higher mathematics.



Question. What were your learnings as an Éclat Ed-Board member over the last two years?

Éclat provides an experience of review research for interested undergraduate students, and, we as members of the Editorial Board of Éclat have always tried to provide opportunities and a quality experience for the students. We believe that the limit of mathematics is infinity and Éclat is a platform for budding researchers. Being a part of Éclat has made us explore our potential in many areas; it has helped us enhance our creativity by ideating new ways to improve the quality of our annual

academic journal. Moreover, Éclat demands us to be particular with our work to ensure a standard journal. Team work and hard work has always been the spirit of Éclat. Over this journey, we have learned various aspects of research paper writing skills and gained experience in research. It is a learning experience for every student and we as a team make sure that each author can delve deeper into mathematics.

Ques. What are your suggestions to foster a culture of research among students?

Research helps students to explore deeper into mathematics and it's a beautiful journey of knowledge. We would encourage students to dive deep into what they study in class and go beyond textbooks to explore the subject. Reading books, articles and journals based on mathematics, definitely helps students to expand their horizons. We think that creativity and innovation are vital elements in research. Students are also encouraged to read past volumes of Éclat, to know more about the past papers students have worked on.

UMA MA'AM: A TRAJECTORY BEYOND NUMBERS

Ms. Uma Versha Kakar was our beloved colleague, it is difficult for all of us to believe that she is not among us now. But we have to face the reality that on 22nd May, 2020, the unfortunate hands of doom erased her trail and she departed for heavenly abode. She joined Department of Mathematics, Lady Shri Ram College for women in 1983, since then she has been strengthening the foundation of the department with her extraordinary capabilities of teaching and learning. Apart from professional contribution, her spiritual disposition and inherent positivity towards life paved her way into the hearts of student community as well as her fellow colleagues. As we all know that it is not possible to attain the zenith overnight, to reach that goal one has to work hard and Mrs Kakar achieved that goal with her dedication towards her duties, her diligence, sincerity, and honesty. She was our mentor, guardian, family and friend. We as her colleagues were simply trying to follow her footsteps throughout and uphold the high standards set by her. But just when we were too busy in taking strides to match her pace, destiny had planned something else. We are trying to corrugate and ready our-self for being able to carry forward the rich heritage which she has left for us. Her irreplaceable memories would not let anyone forget her. We hope to be always blessed by her. We bid adieu to our dearest and beloved Uma Ma'am.



Department of Mathematics
LSR College

UVK

माथे पर बिंदी लगी हुई, जुड़े में पिं भी सजी हुई,
साड़ी में इठलाती हुए, मुस्काते हुए, ऐसी थी हमारी UVK.

जीवन रंगों से भरी हुई, अनुशासन में बंधी हुई,
कभी मां बनती, कभी बड़ी बहन, ऐसी थी हमारी UVK.

एक घने वृक्ष की छाया सी, सूरज की तपिश कम करते हुए,
मैं हूँ ना हमको कहती थी, ऐसी थी हमारी UVK.

परंपराओं को सहेजते हुए, कदम से कदम मिलाते हुए,
वर्तमान और इतिहास की, कड़ी थी हमारी UVK.

अपनी कर्मभूमि को अंतिम अलविदा कहते हुए,
हम सबको प्रेरणा देते हुए, एक नए सफर पर चलती हूँ,
ये कह चल दी...वो UVK.

डॉ. मोनिका सिंह
गणित विभाग



I am sorry, ma'am. I will never be able to capture the magnetic charm in your eyes, the radiance of your smile, your aura in a painting. No one can. Still, I have tried. Because I didn't know how else to express myself. You were the embodiment of grace and elegance. For me, you were a superhero. A superhero whose cape was replaced by a gorgeous, fluid pallus. A superhero who was a true mathematician in every sense of the word. You were the reason my viewpoint of studious, serious, boring mathematicians changed to that of a full of life personality with enthusiasm to face the hurdles of life. I still have the voice recording of the first class we had with you. Believe me, on the very first day I realised that you were a force to be reckoned with. Your beautiful proofs commanded rapt attention. I still refused to use $\langle n \rangle$ or ϵ instead of (n) and ϵ . Some may never know the difference. Ever since you introduced Bartle, we have considered it as our Bible. You showed us what true passion towards a subject meant, and not only for mathematics. Your energy, your love for life is what cheered up our tired faces at the end of the day in those congested tutorial rooms. To be frank, your tutorials were the only ones we attended with such zeal and

dedication. Even though we spent very little time together, you managed to influence each and every one of us. There can be no better Real Analysis teacher than you. No one can ever match your expertise. Again, to be frank, it was in your class last that I understood what was happening in Real Analysis. Since then, I have been more or less clueless in the subject. Maybe because I got spoiled with your brilliant way of teaching right in the beginning, and expected the same from all. The first three pages of our notebooks you made us make, remain etched in our minds. I cannot express in words how deeply I regret not having the opportunity to have a walk with you in the back lawns being a hosteler. And what's more heart-breaking is the fact that now I'll never get the chance. Thank you, ma'am for all this and much more. May your soul rest in peace.

-Swasti Arya, 2nd Year

Uma Ma'am always used to ask interesting questions to her students in class. They weren't always about Real Analysis but they were just questions which made us think differently. She told us that she used to ask this one question every year to each batch. The question was as follows- How do you cut a chapati (circle) into 4 equal pieces without using two straight lines?

I will leave it unanswered, may be its more interesting this way.

Lipika Parekh, 3rdYear

I remember once in a classroom interaction, Uma Ma'am asked us to introduce ourselves and tell everyone something about ourselves. So while I was sharing, I mentioned that I didn't like to dress up at all. She said, it's not about dressing, it's about carrying yourself with grace. That was what I took away with myself. I also recall what she said about my name. She said that she would always remember my name as "Tanvi" was also the name of her niece! Lastly, I remember her wishing me on my birthday when me and my friends were heading for a party. She even asked me the next day about how it all went. I feel privileged that I was once her student.

Tanvi Vohra, 2nd Year



Jaya Sharma, 3rd Year
She carried many bags with her, one for her assorted mint-lemon water, the other for food and the last one for us, containing registers and what not, she didn't need it though. She memorised all our names on the first day, our confused yet awestruck faces etched in her memory. She wanted us to listen to her, her gaze landing on each one of us, asking us - "where are you?" We mostly had double lectures with her, but time flew by without us asking for a break. She knew us, she had our rapt attention, and we wholeheartedly submitted. She was the one who introduced us to epsilon and delta, as if they were some star crossed lovers. She told us stories of her many adventures as a professor, as a maths professor in fact, intermittent with jokes. We laughed when she laughed, her happiness contagious. Maths wasn't just facts or numbers to be taught in closed rooms with her. She lived with Maths to tell the tale, through her theorems and proofs worded like poetry. So if they ever tell our stories, tell them, we saw her, in all her glory, her face aglow with her incandescent desire to live life to the fullest. Tell them, that we talked about her myriad range of saarees in hushed whispers and boasted of her intelligence to our parents and friends. Tell them that we wanted to become like her, walking with our head held high. Tell them, that she made us proud to have chosen Maths. Tell them her name, for us she was our beloved UVK ma'am, our one and only Uma ma'am. And we'll never forget this story.

-Vandita Shankar, 3rd year

What I'll never forget about you, Uma ma'am—your hold over the class as you taught complex real analysis proofs, how you always challenged me to think deep and hard about the questions I asked and how you answered them ever-so perfectly! You truly did let us all have "the joy of writing the proof!" I will also never forget those days when you were TIC and never said no to my dreams and ideas about department activities and always supported us as a Union! I will never forget that winter day on which you got some halwa for the class, and Lipika and I came late and missed it and how two years later when we came to visit you, you fed us your warm, happy, gajar ka halwa! I will never forget your encouragement and love. You showered me with adoration even on the toughest days. Whether it was a "Wow, you look so pretty today!" or an amazing class by you or your meticulous method of working, your presence and words have since stayed with me and will stay with me forever hence. You were a gem of a teacher, and I will never forget the days spent with you, ma'am!

-Rajlaxmi, 3rd Year



Uma ma'am, love, warmth, happiness, grit, devotion - aren't all synonymous? She wasn't just our Analysis teacher, she was one of those who shared life stories and lessons. She believed it was equally important to turn these beautiful, curious girls into strong, intellectual women who walk with their heads high, radiating love and happiness everywhere they go, just like she used to. She just made every problem look beautiful, be it from Math or life. Nothing, nothing was able to dampen her spirit or take away the shine from her eyes while she talked. She was the bravest and the way she just hid all her pain so effortlessly under her radiating smile, still makes me wonder, how beautiful could someone be? My mom shares her name with her and that made the connection all the way more stronger. I remember first seeing her at the orientation and thinking, 'oh! She must be the sweetest of all' which turned out to be absolutely true. After being clueless about Epsilon and Delta, I remember sitting in her first class and thinking, "I think now I get it. It's not tough, I can do it." Ma'am, I don't know if you even know how many people you inspired, how many people's lives you touched, how you made things easy for the people around you, just by talking to them and that's just something that describes you. We miss you, will always do and I know you will always be around guiding us, mentoring us, motivating us to always do the right thing and seeing us turn into those strong, Intellectual women you always wanted us to be. You will always, always be there with us.

-Paridhi Agrawal, 2nd Year



UMA MA'AM: A TRAJECTORY BEYOND NUMBERS



Uma Ma'am was an epitome of selfless love for students and passion for teaching. She was indeed "The Backbone of the Department of Mathematics, LSR". She used to say "If one gets a good teacher, then she can definitely become a good teacher. But if one doesn't get a good teacher, then she knows how not to teach, so she can still become a good teacher." She'd always speak with utmost enthusiasm and a wide smile on her face. It appeared as if she had the solution to every problem. She could be approached to, by anyone, without any hesitation. I shall forever treasure the love for epsilon and delta that she invoked in our hearts. She made us pay attention to minute details in Real Analysis so that we never forget them. Sometimes, I used to get frustrated when Ma'am used to continue her lecture in the assembly break or the lunch break. But we often do not understand the importance of something, until we lose it. Now, I realise that I can do ANYTHING to attend one more lecture from Ma'am. She was a mother-figure to all of us. Entering the class with a burst of energy and freshness, she would ask us to meditate and sit with our back straight. She



It has been a long time since I graduated. I heard about the extremely sad news of UVK ma'am's passing away. It really came as a shock to me as I was not aware of the health condition she was struggling with from last year. I wanted to reach out and express my deepest condolences. She was a wonderful teacher and I'm sure it is a huge loss for the entire math department.
- Sakshi Arya, from 2009-12 batch.

would occasionally offer us her nutritional drink that she would always carry in a flask. Such a health-conscious lady, who looked 20 years younger than her age, left us due to a deadly disease. It still feels like a nightmare. She was always curious to know about our hobbies. On knowing about my interest in gardening, she told me that she'd give me a project on 'Mathematics and Gardening'. She encouraged me for conducting a workshop on the Use of Scientific Calculator. She blessed me with her presence in every Odissi classical dance performance of mine in LSR, even for non-Math Dept. events. She wanted me to conduct a workshop and teach her Odissi dance. I wish I had fulfilled those treasured wishes of hers, back then. My heart wrenches that I did not give my best to pay my tribute to her, while she was amongst us. The way she draped the myriads of gorgeous sarees, carried her charming personality and spoke with utmost humbleness, the way she shared her experiences with her eyes sparkling, and enjoyed with us in every celebration, made our college days "full of life". Playing the roles of the HOD, a professor, a mother, a friend, a guide and a learner, UVK Ma'am was truly an inspiration! It is impossible to pen down every cherishable memory of hers, that is an indispensable part of my heart. It is difficult to spend every moment trying to ingrain the harsh truth that Ma'am is no more. It is an irreparable loss for LSR and for the beautiful subject of Mathematics, as the upcoming generation of budding mathematicians would never be able to experience the positive vibes, the contagious aura, the ocean of knowledge and the exceptional teaching skills that Ma'am was endowed with. I believe, however, that Ma'am shall continue to bless and motivate us to reach the pinnacle of success, as she used to say, "The ladder of success is never crowded at the top". We miss you, Ma'am.

-Shagun Agrawal, 3rd Year



Around March of 2019, Uma ma'am had called two former students of the department to help with the finishing touches of the department journal. That entire day, ma'am worked with the two scholars, keeping up the overall spirit while they all laboured efficiently. What transpired later that day will forever be etched in my memory. It was early in the evening, when most of the college was empty and ma'am was just wrapping up the day's work. She called two of us from the journal's team. While I fearfully anticipated some sort of reprimand, ma'am was extremely gracious and encouraging with her words (as she always is). She ended up sharing her experience as a young student of higher mathematics, which included certain unforeseen challenges that ultimately made her more experienced and wiser for it. With that, she assured us that our present grind would only be a learning experience in the long run. As if her kindness wasn't already enough, she hugged us before we left. I will always remember ma'am as an uplifter and an encourager. And yet, whenever I personally received her encouragement - through a passing word, an assuring smile, or amidst the familiar setting of our classes & tutorials - it always caught me off-guard, because ma'am saw the capabilities in us that passed our own sights. So personally, while her words seemed most undeserved at times, her indomitable faith in us always propelled us to be our best. Looking back, it's crystal clear how ma'am showed her deep-seated love for us with her kind and empowering words. Today, her passing is a grim reminder of how brief life can be, but it is people like her who come along and add to life's worth. I thank the Almighty God for giving me the joy and honour of having crossed paths with the beautiful soul that Uma ma'am was.
-Khuisangmi Konghay, 3rd Year

The first time I entered your class, I was late. I flicked a glance at the board and got scared because all I could see was alphabets and no numbers. Little did I know that with your help and guidance I will get over this fear and as you used to say I will start avoiding the "hassle of solving the whole theorem" and start appreciating the "beauty of the theorem". Once you were checking my paper and suddenly you started laughing because there was a symbol in my paper that looked like 'z'. It was then that you realised that I didn't know how to draw 'pi' and what I drew looked like 'z' or 'lambda'. But like a mother who teaches her children to write alphabets you taught me how to write 'pi'. When we gave semester exams it was like you too were giving it with us. Solving our doubts even at midnight and taking out time even one day before exams and always motivating us. I can never forget our memories in tut rooms where you were telling us a joke and we made silly guesses and we all laughed so hard that our eyes got filled with tears. On freshers and farewells you used to dance and sing with us and once after my performance you whispered to me "you should do this more often" and I had never felt this happy about myself until that day. You insisted on taking a retest until we got a perfect 25 and now I realise that those were not just retests but your ways of showing that we always have a chance to be better. You may not be with us today but every time some positive 'epsilon' will find its 'delta' it will remind us of you. Every time we will make that extra line in N, Z, R to denote natural, integer and real numbers it will remind us of you, And everytime I come across 'pi', it will remind me of you. Thank you for everything ma'am

-Saumya Singh, 3rd year



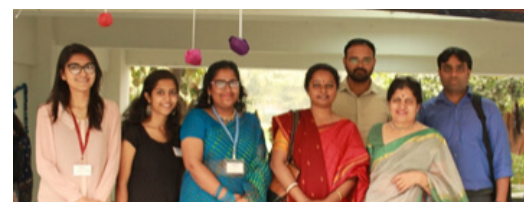
Dear Uma Ma'am,
Real analysis is incomplete without you. Just like missing an " $\epsilon > 0$ " expression from a proof. The beauty and grace that you embodied are unparalleled. I am immensely lucky to have been taught by you even if it was just for one semester. Knowing you has been one of the greatest opportunities I have ever received and for that, I am forever grateful. Words cannot express the dedication and devotion with which you taught us every single theorem and proof, and frankly, those classes that we had in CL and Room 24, were the only ones for which I would learn my notes from the previous day just so that I could ask "intelligent" doubts in the class. I still remember your remark on one of my doubts. You said, "Let me think about it. In all my years of teaching, I have never been asked this question." My face beamed on hearing that and to be honest, I had never felt more appreciated. In one of my assignment sheets, I had written "Maths Honours" which you corrected to "B.Sc(H) Mathematics" and it has remained that ever since. Now, when I recount all the small conversations that we've had, whether it's you correcting how we began a proof or appreciating a poster I made, I cannot help but think about the kind of detail and importance you gave to everyone and everything. You memorized each and every one of us. You made us all feel loved and valued. The elegance you embodied a person was reflected in each and every one of your proofs. The minute you make an opening statement for proof, we know it's going to be a majestic one. Your teaching inspired us, your humanity moved us, your passion for Mathematics made us cognizant of the beauty of the subject, the beauty you so flawlessly personified. You are my favorite Mathematician. And always will be. Thank you ma'am for being you. May you rest in peace.

-Nayana Nair, 2nd Year



Uma ma'am was one of the best teacher's one could have, no one could've possibly taught us like she did. Her passion and love for the subject would make me actually want to study. Ma'am was an angel in human form and it's no surprise that she could light up any place just with her presence. Her dedicated tutorship and unrelenting discipline has helped us all do so much better. She holds a very special place in all our hearts. We love her and she will always be missed.

-Richa Sharma, 3rd Year



Dear Ma'am,
You were more than a teacher we asked for
You were more than a mentor we wished for
You were more than a friend we longed for.....
Thank You ma'am for transforming so many lives around you & making us more mature than we really were. Ma'am, now for me, Lsr Maths Department is lonely without you & Analysis classes will seem dull without "Everyone, Close your eyes for 5 minutes" or "For example of limit points, consider that if Alia Bhatt enters college Auditorium....." moments, but the enriching memories spent with you & beautiful conversations that we had with you, will guide me further in life & motivate me towards my goals. Once again, Thankyou ma'am.
-Aditi Singh, 3rd Year



UMA ma'am was always extremely sweeteststt with everyone all the time. Personally I have a very good relationship with ma'am. In 2nd year when I haven't attended college because of my health for more than 3 weeks, she noticed that and the next time when I went to class, ma'am called me personally and asked the reason and ma'am even said that she's gonna help me regarding the classes I have missed. I used to stay in hostel, so ma'am asked me to join with her for morning walks Ma'am even said that she's gonna help me with everything, regarding the classes I have missed, during the mid sen when I haven't went to home. I can't put my words to describe ma'am's love, encouragement, care .

-Sucharitha, 3rd Year

ACHIEVEMENTS

FACULTY PUBLICATIONS

- **Dr. Sunil Kumar Yadav**, Assistant Professor, published the following:

Research Papers:

- 'On a Theorem of Suslin'
- 'On the completability of unimodular rows of length three'
- 'On an Algebraic analogue of the Mayer-Vietoris Sequence'

Journals:

- Leavitt path Algebras and Classical K-Theory, Springer, Springer Nature Singapore Pte Ltd. 241-260, 2020
- Leavitt path Algebras and Classical K-Theory, Springer, Springer Nature Singapore Pte Ltd. 281-306, 2020
- Leavitt path Algebras and Classical K-Theory, Springer, Springer Nature Singapore Pte Ltd. 261-269, 2020

ACADEMIC AND EXTRA-CURRICULAR ACHIEVEMENTS

JAYA SHARMA, 3rd YEAR

- Secured **AIR 143** in IIT-JAM

SHAGUN AGRAWAL, 3rd YEAR

- Completed **Masters in Odissi** Classical Dance with **First Division**

RAJLAXMI ADWANT, 3rd YEAR

- Received a **special mention** at **JMC MUN 2020**, Jesus and Mary College
- Represented LSR at **International South Asian Conference** titled '**Widows. Transforming Lives. Accelerating Change**', hosted by Guild of Service and supported by UN Women

CHHAVI NARANG, 1st YEAR

- Secured **1st position** in **Socio Quest 2020** organised by Enactus, Hansraj College
- Secured **1st position** in **Orenda 2020 and Business Plan Competition** organised by Young Entrepreneurship Society, Shaheed Bhagat Singh College

PLACEMENT OFFERS

The following students of the Department's graduating batch of 2017-2020 received job offers during on-campus placements, via the college's Placement Cell:

- **Akriti Sahai**: Placed at GEP Worldwide as Senior Analyst in Consulting
- **Anvita Jain**: Placed at Onedirect as Associate Consultant
- **Lipika Parekh**: Placed at Kepler Cannon as Associate Research Consultant
- **Navya Saini**: Placed at Praxis Global Alliance as Business Analyst
- **Rajlaxmi Adwant**: Placed at McKinsey & Company as Business Analyst
- **Shradha Rajpal**: Placed at American Express as Data Analyst
- **Simran**: Placed at
 - (1) JSW Group as In House Consultant (PPO)
 - (2) Praxis Global Alliance as Business Analyst
- **Suhani Mathur**: Placed at Bain Capability Network as Business Analyst
- **Tamanna Das**: Placed at Praxis Global Alliance as Business Analyst

INTERNSHIP AND SCHOLARSHIP OFFERS

The following students of the Department's graduating batch of 2018-2021 received internship offers during on-campus internship process, via the college's Placement Cell:

- **Jassika Kapoor**: Summer internship at Blackrock
- **Kadapati Prathyusha**: Summer internship at Blackrock
- **Kajal**: Summer internship at Blackrock
- **Nayana Nair**: Summer internship at Blackrock
- **Pooja**: Summer internship at Blackrock
- **Rajshree chandel**: Summer internship at Citi Bank
- **Sakshi Soni**: Summer internship at Blackrock
- **Shreya Jaiswal**: Summer internship at Blackrock
- **Swasti Arya**: Summer internship at JSW
- **Sweta**: Summer internship at Blackrock and received **Hallac Scholarship**

ENIGMA 2020

THEME AND ORGANISING COMMITTEE



This year, the Annual Academic meet of Department of Mathematics, Enigma 2020, had the theme of 'Being Environmentally Rational'. Steps taken by the department in its effort to uphold the theme include reusing plastic poly bags to make decorative flowers, reusing waste cardboard to make the Enigma logo, reusing paper cups, aluminium foil, dupattas and one sided used sheets which were collected during a 2 month long collection drive. 75% paperwork for the event was done by using newspapers and old sacks were used for making leaves for decorating. Envelopes were made from newspapers and questionnaires were printed on one sided used sheets. Plastic paper of posters were reused and laptops were used at the registration desk instead of sheets to reduce wastage. Mics and other sound appliances were not used in classrooms to conserve electricity. The Organising Committee did a wonderful job to make Enigma a worthwhile experience for everyone. Everyone was particularly pleased with the amazing work of the Decor committee. The pleasing variety of events ensured that there was something for everyone.

CULTURAL PROGRAMME

The cultural program consisted of mesmerizing performances by the students of the Department of Mathematics. The guests were given a warm welcome by the Department Teacher In-Charge, Dr. Monika Singh which was followed by the Lamp Lighting Ceremony. The Saraswati Vandana was sung followed by a dance performance, showcasing a fusion of Indian and Western dance forms. First-year students presented slam poetry, highlighting the theme, Being Environmentally Rational. A skit was presented showcasing the importance of mathematics. The students also sang some patriotic songs followed by a speech on the theme of Enigma by the President. The official trailer of Enigma was presented to emphasize the theme and provide information about the events lined up. It was a great start to the annual academic meet, and it perfectly captured the basic theme and purpose of the event.

-Aastha and Aseema (1st Year)



The topic for the discussion was 'The Role of Mathematics in Sustainable Development of Economies'. Dr. Monika Singh introduced the panelists: **Dr. Aparna Sawhney**, specialist of Economics, professor at Delhi Technical University, **Dr. Soumya Datta**, assistant professor at South Asian University, and **Dr. Seema Singh**, professor of Humanities, Delhi Technical University. Dr. Aparna Sawhney spoke eloquently on the idea of a Paperless Economy to sustain future generations. Dr. Soumya Datta discussed the socio-economic impacts of the three Ps: Pollution, Politics, and Population. He ended by saying that Mathematics whilst creating models should also consider the social and political aspects of the problem. Dr. Seema Singh integrated the history of economics with rational behavior. Her opinion settled on considering history as a yardstick which has added value to resources. A QnA session followed the discussion.

-Shubhi and Chhavi (2nd Year)

KEYNOTE ADDRESS

The Keynote Address began with a speech from the President, Saumya Singh on the theme for Enigma-Being Environmentally Rational and the efforts of the department in upholding the same. Dr. Monika Singh introduced the chief guest, Dr. Mayank Dwivedi, Director of Industry Interface and Technology Management at DRDO, and Dr. Asha Mathur, a retired faculty member from the Department of Mathematics, IISR. Dr. Mayank Dwivedi has worked in the area of stealth and radar absorbing systems and on major projects such as Agni missile, Brahmos missile, biomechanical devices, etc. He is a recipient of the 'Agni Award for Excellence in Self Reliance' and 'Lab Scientist of the Year' award in DRDO. He emphasized the role of women in organizations saying, "Science doesn't differentiate between a man and a woman".

-Sumaiya and Sanya (1st Year)



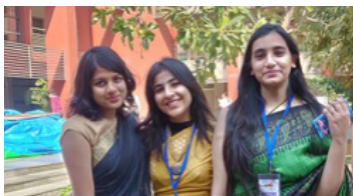
Mathscape was held on 24th January 2020, where participants expressed their love and deep understanding of Mathematics through art, poetry, and photography. The participants had to explore the elements of Mathematics in Nature and create a piece of art within an hour's time. They also had to explain how it connected to the theme. The theme for the event was 'Limits'. The event successfully bridged the gap between art and science and prove that Mathematics is truly the art of human understanding.

-Sanya (1st Year)

BATTLE ROYALE

The basic idea and the inspiration behind the event was derived from PUBG. The event allowed teams with at most 4 players. Round 0 was played by the teams registering on the spot. It was a 45-minute pen-paper quiz round that included questions based on PUBG, logical reasoning, and mathematics. The top 7 teams qualified for the next round-Battle Loot. This round was a hunt for supplies around the campus. It was indeed a very gripping game. The winning team. The whole event was a huge success where the participants enjoyed themselves even with the competitive spirit

-Sumaiya and Keerat (1st Year)



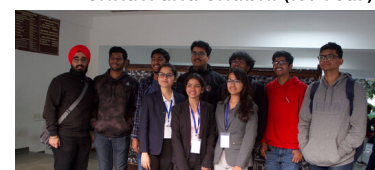
Sherlocked, one of the biggest events of Enigma was an incalculable success. The first round was an online preliminary round. On the day of the event, the teams were given an elaborate tour of the college. Round 1, "The Logical Interpreter", was a quiz round based on quantitative ability and logical reasoning. Round 2, "Reichenbach", was a video round based on practical cryptography. Round 3, "Sine of Three", was a locked room mystery where teams had to solve a mystery with the help of the clues. Round 4, "The Great Game", was a treasure hunt where teams had to find clues hidden around the campus and solve a mystery. The participants appreciated the level of difficulty and the flawless organization of the event.

-Chhavi and Shubhi (1st Year)

HARRY POTTER: WIZARDS UNITE

Two rounds of offline prelims were held in the college campus after which 26 teams appeared for round 1 and the top 10 teams made it to the second round. 3 teams were chosen for the main event, Goblet of Fire which had two rounds: 'Identification and Destruction of the Horcruxes' and 'The Objection Round'. Rapid-fire questions made the event exciting and kept the participants at the edge of their seats. The first round was played seven times and the second one was played four times to determine the winners. With many interesting and mind-twisting riddles and questions, the event was fun and intriguing.

-Abhiruchi and Aseema (1st Year)



Battle of Wits was the pre-event to Battle Royale in which teams had to answer a question related to PUBG, solve a mathematics question, and burst a balloon placed on the ground without using their arms or feet. **Coffee with Cauchy** was a rapid-fire event which boosted enthusiasm surrounding Mathscape. Treasure Hunt was the pre-event for Sherlocked. **Forbidden Game**, the pre-event to Harry Potter: Wizards Unite had teams trying to guess popular words and phrases from the Harry Potter series without using some words which were declared as "forbidden words". A Tattoo and Photo Booth with interesting props marked the end of the pre-events.

-Sumaiya, Aastha, Shubhi, Abhiruchi, Chhavi, Keerat, Sanya, Aseema (1st Year)

PRE EVENTS

THE YEAR AT A GLANCE

FRESHERS'

To present a warm welcome to the incoming batch of 2022, the Department organized a Freshers Celebration on 20th August 2019. Complementing the scorching Delhi heat, 'Tropical' was decided upon as the theme for the event. The event was graced by the presence of our revered professors Dr. Monika Singh, Ms. Reema Aggarwal, and Dr. Mahesh Kumar. Foot-tapping performances by ever-so-talented seniors left everyone grooving and singing along. A fun skit depicting the life at Lady Shri College gave everyone a hearty laugh along with giving them an insight into the actual struggle of a student's survival in this institution. Tanya Borah, Priyana, Shubhi, and Sumaiya were bestowed upon with the titles of Miss Fresher, Miss Tropical, Miss Social Bee and Miss Funny Bones respectively.

-Jassika Kapoor (2nd Year)



TEACHERS' DAY

'Without teachers, life would have no class.' To show their love for their teachers, students of the department organized a special function on teachers' day. The event took place on 6th September, 2019. The students dedicated beautiful lines and poems to them. This was followed by a small skit on student-teacher relations by the first years. Each teacher was presented with gifts and a card made by the students. The function ended with cake cutting by the teachers. The teachers expressed their love for us and were extremely elated. The students also gave a special visit to our senior-most faculty member, Ms. Uma Versha Kakar who couldn't be with us because of her health. She was presented with gifts and special cards. The students conveyed their love wished her a speedy recovery.

-Jaya Sharma (3rd Year)



EDUCATION 4.0-GUEST LECTURE

The 4th Industrial Revolution is changing the world at an incredibly amazing pace. Intellectually intensive jobs shall be impacted the most, and so shall the role of colleges and universities to produce the workforce for the new world. It is with this objective that the Department of Mathematics, organized on 21st August, 2019, its first talk of the session: 'Education 4.0, 21st Century'. The speaker was Prof. M. N. Hoda, director at Bhartiya Vidyapeeth Institute of Computer Applications and Management (BVICAM). He began the talk by explaining the changing industry and market scenario - fast beats slow is the survival mantra.

-Khusiangmi Konghay and Jaya Sharma, (3rd Year)



PATH TO ENIGMATIC INFINITY

Mathematics is not just an abstract collection of axioms, equations, and theorems but it is a stream of beauty and logic, leading to paths of infinite beauty, comparable to art, poetry, and music. One such path is the one which leads to the concept of infinity, which we discovered in this talk by Dr. Rita Malhotra organised on 26th September, 2019. Dr. Rita Malhotra is a mathematician, essayist, poet, poetry-critic and French-English translator. Dr. Malhotra is former Principal and Mathematics Faculty, Kamala Nehru College, University of Delhi, Visiting Post-Graduate Faculty at The Department of Mathematics, University of Delhi, and is currently Academic Advisor, Soka Ikeda College Chennai, and also President of Poetry Across Cultures, India. Dr Malhotra began by telling us about the development of number systems and counting eventually leading to bigger and perhaps 'giant' numbers. The very interesting Hilbert's Hotel Paradox was explained.

-Jaya Sharma (3rd Year)



DATA SCIENCE AND MACHINE LEARNING WORKSHOP

The Department of Mathematics, Lady Shri Ram College conducted an 18 hours long workshop on 'Data science and Machine learning' from 11 September 2019 to 1 October 2019. The workshop was conducted by Ms. Radhika Bansal along with Mr. Ashish, both of whom are IIT alumni. Mr. Ashish gave students an overview of the data science industry and how this industry has enormous potential for math students. The workshop concluded with an informative discussion on the areas which the students could improve upon. It was not only beneficial for Mathematics students but also for student from courses like Economics and Statistics.

-Jassika Kapoor and Paavani Mangla (2nd Year)



DEPARTMENT ASSEMBLY

The Department of Mathematics conducted an assembly on 23rd October, 2019 on 'Women in Space'. The assembly constituted of a series of programs showcasing the contribution of women in space research and astronomy. The Principal, Dr. Suman Sharma graced the event with her presence. She was delighted to see the diverse talents of the Department's students. She said that she was happy that she had indeed attended, and was proud to see the Department take up such a relevant issue as Space and present such diverse viewpoints on it.

-Chhavi Narang (1st Year)



WOMEN IN BUSINESS BY MS. SURBHI SOOD

The Department of Mathematics organized a talk by Ms. Surbhi Sood, an alumna of the department, on 14th January 2020. The talk was on the topic 'Women in Business'. The session began with Ms. Sood sharing her experiences at LSR and her journey thereafter. She talked about how women are stereotyped in technical fields and advised not to get disheartened by such remarks and to keep moving ahead. Ms. Sood also shared her experience studying at the Indian School of Business, discussing how business schools help in the holistic development of a person and gave an insight into the corporate world.

-Paavani Mangla (2nd Year)



ANUPAMA DUA PAPER PRESENTATION AND SCHOLARSHIP FUNCTION

Anupama Dua Paper Presentation and Scholarship Programme was organized on 25th February 2020. The session started with the welcome of Ms. Anupama Dua's family, who grace this event every year in the loving memory of their daughter. The students who had secured the first and second position from each year were awarded the scholarship following which family members of Ms. Dua along with our faculty members paid respect to our beloved alumni Ms. Anupama Dua by watering the tree that was planted in her memory. The event culminated with a closing speech by the Teacher In-Charge, Dr. Monika Singh and a vote of thanks by Association In-Charge, Mr. Kuldeep.

-Gauri Bala (1st Year)



ALUMNA INTERACTION SESSION - SOME CRYPTOGRAPHY PRIMITIVES

The Information Committee of the Department of Mathematics organized an alumna interaction session on the topic 'Some Cryptography Primitives' by Sruthi Sekar on 28th February, 2020. Ms. Sekar, a fourth year research scholar in Mathematical Sciences in IISc Bangalore, unfolded many of the mysteries around cryptography. She started her presentation by comparing the classical and modern approaches to cryptography. Ms. Sekar also explained another method of encryption called the RSA encryption. She explored yet another part of cryptography that included zero proofs and graph isomerism.

-Sumaiya Ahmed (1st Year)



GOODBYE, BATCH OF 2020



After three years of struggling with epsilons, deltas and long proofs, the time had finally to say goodbye. A virtual farewell was organized for the outgoing batch of 2020 to celebrate their wonderful journey in LSR. Two minutes of silence was observed as a tribute to Uma ma'am who not only helped the students to discover beauty in maths but also in life. The session commenced with a beautiful melody performed by the second years. This was followed by faculty members sharing their unforgettable classroom experiences, expressing how the batch was special to them and wishing the students good luck for their future. Finally, it was time for the most awaited event, the title ceremony where seniors were given hilarious yet suitable titles which summed up their vibrant personalities. All the guessing, jumbled screams added an additional flair of fun and laughter. Once the formal session concluded, an informal session was conducted where the third years played games like 'Rapid Fire', 'Word' and 'Get the Thing', revealing their classroom secrets, giving a glimpse of their fun filled friendships and bonds. At the end of the session, Instagram page dedicated to the batch of 2020 was revealed, where messages from their juniors and batchmates were compiled and displayed to show how much the batch would be missed. It was a memorable evening for a remarkable batch.

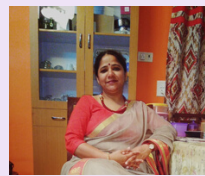
-Osheen Khare, 1st year

SINES OF MADNESS

An Instagram page was created as a surprise element for the graduating batch to present the titles, scribbles from their juniors and batchmates and messages by the teachers.



MESSAGES FROM THE TEACHERS



I wish you all the best for your future endeavours and may you succeed in achieving all your goals and ambitions in life.

-Monika Ma'am



Keep holding onto your dreams and aspirations. Remember that we always shine our best in the worst times. Your presence added the energy into my classrooms that I'd always remember. Your laughter, enthusiasm, intelligence and innocence will always linger in my memory. I am sure all of you will reach greater heights.

-Jyoti Ma'am



You all are ready to fly and take on the world. It's difficult to comprehend such a long journey. It's like a vacation where you take hundreds of photographs and are later asked to select a few when all of them are special to you. Yours was the most heterogeneous class of my career. It's like a life within a life and now it's ready to end so that it can start afresh and look forward.

-Sucheta Ma'am



It is a time for new beginnings, time to meet new people and make new friends, time to explore new cities and countries, time to fly with all your might and conquer the world. You have miles to go on.

-Bhavneet Ma'am



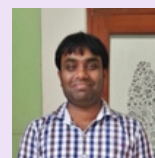
Dear students, my journey with you may stop here, but for you it's a new beginning of your life. The struggle you are facing today will help you develop the strength you need tomorrow. Be dedicated to your work. I wish you a very successful life.

-Reema Ma'am



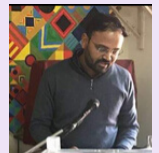
Dear students, set your goals high and dream big. Do what is right, not what is easy. There is a secret opportunity hidden behind every failure. May you reap the fruits of success always.

-Mahesh Sir



Dear students wishing you success in life. Your three years in college were awesome! You were very supportive and understandable. I enjoyed teaching you. All the best and do well in life.

-Kuldeep Sir



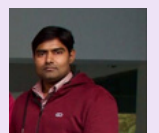
May you do well in your life and achieve whatever you want. I feel humbled and blessed to be your teacher and thanks to all of you for being my students.

-Yograj Sir



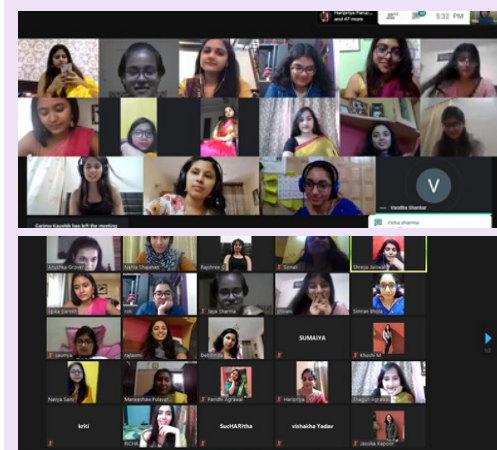
Dear students it's been a remarkable journey with you all. May you be happy and successful in life. So wishing you all the best for your future.

-Krishna Ma'am



How can I forget you guys are like Ramanujan in number theory, like binary operations in algebra, like well definedness of functions, like direction for winding functions, like real numbers in real analysis, like happiness of a mathematician, like the flower garden in LSR, like Uma ma'am for all of us, like a pearl in the ocean!

-Sunil Sir



Thinking about farewells always unwraps mixed feelings of nostalgia and excitement. For someone like me who's enthusiastic about littlest of things of joy, not being able to attend the farewell at college was extremely hard to register. However, when your juniors plan a virtual farewell for you with ALL the love and creativity, you've to stop cribbing and start flaunting- wearing a gorgeous saree, a perfect eyeliner and long soft hair curls. Even if through laptops and phones, when your teachers and juniors make you feel special and worthy of their care and affection, it's a memory to cherish forever!

-Shagun Agrawal, 3rd year

ALEPH NAUGHT

AN ODE TO MATHEMATICS

-Rajlaxmi Adwant, 3rd Year

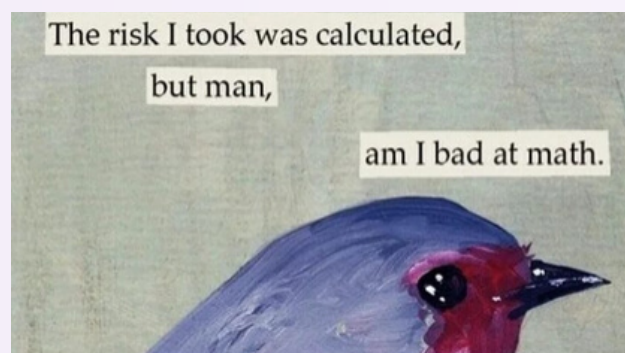
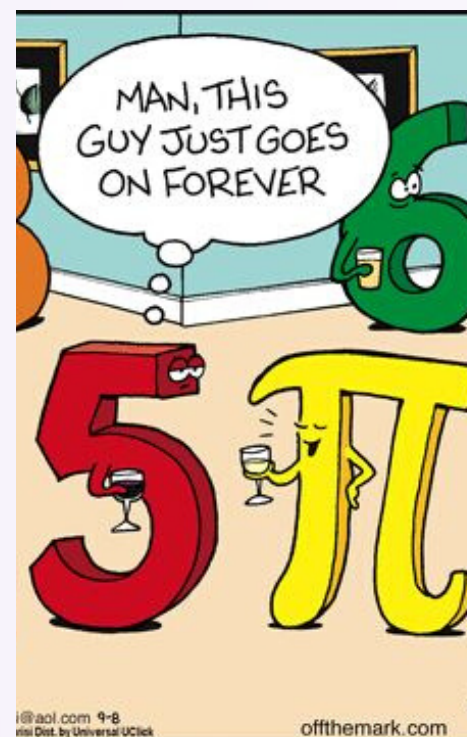
Dear Maths,
 You are the best.
 As you are taught, you teach
 As you are taught, you teach: life lessons
 Yes, life lessons tucked away in all those abstractions: a true paradox
 Every step along the way, you have made us wiser.
 As we grew up, our bodies were changing You were there for us
 Circle, triangle, square, rectangle: you taught us to love them all equally
 "Beauty comes in all shapes and sizes," you said.
 As we met people different from us,
 You defined diversity as normal
 "Each one plays a role," you said,
 "The perfect bell curve is a product of diversity."
 "You taught us to be more accepting.
 As we weathered storms, we questioned our identity
 You were our shelter in those storms
 "Never lose yourself," you said; we took that to heart
 and grew up admiring zero, who absorbs the world without changing.
 Sometimes, we found it difficult to fit in
 But your prime numbers helped us believe that weird is wonderful
 "So what if you don't have much in common with others?," you said
 You made us realize that everyone has a place in this world.
 As the question of "What next?" haunted us,
 You gave us some real perspective "Do what you love, and dream big," you
 said,
 "You define your infinity"
 You gave us the courage to follow our dreams.
 As we endeavored to change the world
 You said, "There is much that lies beyond imagination.
 "Next to complex numbers and n dimensions, our wildest ideas seemed
 believable
 You gave flight to our imagination.
 There was still that nagging question though,
 "Will I make it?"
 "Robert Frost gave us two roads, but you, you went much further
 "There are many ways to reach your goal," you said
 Your lesson on permutations and combinations gave us confidence.
 As time passed, we had moments of self-doubt:
 "How can I ever make a big difference?"
 Once again, you were there for us
 "Fret not," you said, "for even between 0 and 1 lies the power of infinity."
 "There were days when we faced the heat or were in a fix
 Hurdles presented themselves in various forms
 You, however, said, "Every problem has a solution
 "You gave us the courage to keep going, and to find that solution.
 Maths, with your infinite wisdom, you have made me.
 You continue to make me with every little proof and concept.
 Thank you, Maths, for everything.
 You really are the best.
 QED. Quod Erat Demonstrandum.

THE MATHEMATICS OF JUGGLING

-Sanya Juneja, 1st Year

Juggling is mathematics. Follow me on this one.
 The connection between the two came out of a juggler's attempts to develop a mathematical notation for the tricks jugglers use. This notation is called site-swap and can be used to describe nearly all juggling patterns. As it turns out, standard mathematical tricks can be used to create patterns of juggling, that no one has ever seen before!
 I always knew the late computer scientist Claude Shannon as a mathematician, cryptographer and the Father of Information Theory (also as my birthday twin!), but recently in an article I read that he was also an avid unicyclist, juggler and tinkerer. He even built his own robotic juggling machine, programming it to juggle three metallic balls by bouncing them on a drum. In the early 1980s, Shannon published the first formal mathematical theorem of juggling, correlating the time, the balls are in the air to the time each ball stays in the juggler's hand. And mathematicians have been fascinated by juggling ever since.
 Claude Sharron gave the Equation:
 $(F+D)H = (V+D)N$ where,
 F = how long a ball stays in the air
 D = how long a ball is held in a hand
 H = number of hands
 V = how long a hand is empty
 N = number of balls being juggled
 On breaking down Claude Sharron's equation, I realise that in essence, juggling comes down to simple projectile motion, with each ball following a neat parabolic arc as it is tossed – except that there are multiple balls following interweaving paths in periodically repeating patterns. For a single juggler, there are three basic patterns: the cascade, in which an odd number of balls are tossed from one hand to the other; the fountain, in which an even number of balls are juggled in two separate columns; and the shower, in which all the balls are tossed in a circle. A more experienced juggler might throw more than one object from a single hand at the same time, a practice known as multiplexing. There are many possible combinations of throws, so how do jugglers decide which ones will produce a valid pattern? They do so by means of a mathematical notation system called site swaps that links each ball thrown to how long it stays in the air, describing this in terms of 'beats.' For example, a one-beat throw means the juggler simply passes the ball from one hand to the other. If the ball is tossed into the air, the height it reaches determines how long it takes for the ball to return to the juggler's hand – two beats, three beats, or more. The more the beats, the higher the ball must be thrown to maintain the pattern.
 Each time a ball is thrown, it's represented in site-swap as a number. For instance, in the most basic juggling pattern, 3-ball cascade, each throw is simply represented as the number 3. In the most basic pattern with four balls, 4-ball fountain, each throw is represented as the number 4. Essentially, each throw is given a number based on how many beats in the pattern it spends in the air before landing. We can mix and match these numbers to create new patterns. For example, we can throw a 5 and a 3, creating a new pattern, called 4-ball half-shower.
 We can use these mathematical tricks to discover new patterns. Mathematician Colin Wright used these tricks to invent 5551, which is a four ball pattern, and 441, which is a three ball pattern that no one had ever seen before, yet the math behind site-swap predicted them. Site-swap can get lots more complicated than this, and the math behind it gets more complicated too. Juggling has been around for centuries, yet in the mid-1980s and entirely new class of tricks was found, since mathematicians began systematically investigating the possible patterns of non-colliding throws that has helped juggling advance enormously in recent decades. As a result of this research, many new possibilities have been discovered for jugglers to attempt. Here's to adding another option in the long list of lucrative careers we can take up after our math degrees!

THE JESTER



LYCEUM LITERATI

CUT SHORT

Maybe I will never know,
what that Nestle's grekko yogurt tastes like,
but thank god a while ago,
I drank Iced Tea during the teacher's strike.
Maybe I will never sit on that small back lawn hill
I don't know for whom that plant on the hill was,
The Dalai Lama or Aung San Suu kyi, but still
I do know it must have been for a good cause.
Maybe I'll never get the spiral bind prints
of the short stories saved on my desktop
or the sporadic occurrence of polo mints
at Nescafe beside this little photocopy shop.
Maybe I'll never see the Malwa Dumping sign in spring,
in the wilderness behind the lawn,
or find out which teacher had the white wrought iron swing
or the many flat owners long gone.
Maybe I'll never get to sit in the Basketball court,
and cheer for all the strange guys,
but at the end the home team gets our support,
clapping at all their lows and highs.
Maybe I'll never have a last day like my second year's,
all alone in the exhibition hall with my friends,
the summer breeze warding off our farewell tears,
a farewell for which we will now make amends.

-Vandita Shankar, 3rd Year

LIFE: A BLISSFUL JOURNEY

Shadows behind the hues
Whose darkens deepens.
Darkness beneath the few
Whose ashes waken
Ashes above the seams
When war threatens.
War among the living
To break things broken.

Breaking in the treachery
That faith couldn't
Faith to the fear
That we failed to overcome
Failing in the lessons
Which weren't meant for survival
Survival among the beings who rather wished to live.
And living among the beings who rather wished to die.

Why survive, when you can live?
Why fear, when you can fight?
Why the chaos, when all you need is calm?
A conundrum of dreams.
A cacophony of destined deeds lost amidst the plethora of wild beliefs.
A life in enigmatic distress.
A fire igniting from the ashes
A dissonance transforming from resonance
A disharmony in the world of symphony.

-Shubhi Arora, 1st Year

QUARANTINE STORIES



Taking this lockdown as an opportunity to complete past projects and take up new skills, a lot of people have been busy taking online classes, pursuing their hobbies or even catching up on academic work. I, on the other hand did no such thing. I did not plan my days or follow a schedule or set goals for myself during this lockdown. Instead, I woke up every morning and pursued whatever I had an inclination towards. Some days, I woke up with the determination to read an entire novel in a day, and there were days where I just binged watched sitcoms. To be honest, this period involved a lot of editing for me. Be it for society purposes or my personal blog. Another thing I gravitated towards was uploading more relatable posts on my blog about certain nuances of this lockdown period. A large part of this period was spent painting random objects all over my house. For some obscure reason I refused to paint on paper like normal artists. So far, I have painted on wood, my study table, coasters, badges, glass bottles, clay, phone case and fabric. This has been challenging because I had limited art supplies namely three crooked paintbrushes and a terrible assortment of water, poster, acrylic and chalk paints. I really missed my good art supplies that sat idle in my hostel room's cupboard. Moreover, because of the lockdown I was unable to refresh my stock. I spent a day composing a parody song with an unexpected friend and another realising I didn't have the talent to compose even desi shayaris. Another day was spent pranking friends. I am scheduled for a return favour any day now. Another interesting day was spent recounting all the modifications of my name that I have been called and trying to think up of justifications for the same. This resulted in another blog post. Most nights were spent arguing with my family if 'juxta' or other such words are valid scrabble words over a board spread with words ranging in complexity from 'jug' to 'foetus'. Another difference I noticed was in my tolerance level for my neighbours' ability to be insanely loud throughout the day. Earlier I was barely able to tolerate them for more than an hour, but all this free time taught me to be interested even in their mundane yet loud bantering for hours on end. After a good deal of introspection, I realised that these are things I don't have time to pursue during normal college days. Even though I missed attending college terribly, this downtime was much needed to catch a breath and indulge in activities that didn't necessarily align with my academic or professional goals. Instead these activities helped me to rejuvenate myself for the stress filled days ahead.

-Swasti Arya, 2nd Year

On the second day of quarantine, I realised that I could click silhouette pictures of mine in classical dance poses in my own room! I know it's not perfect, but I really enjoyed doing it as I had never done it before.

-Shagun Agrawal, 3rd Year



This quarantine, I did what I left a couple of years back. Paints and brushes have always been my leisure time fillers and I finally got the time to relive the feeling of putting up beautiful brush strokes without getting smudged.

-Paridhi Agrawal, 2nd Year

Roli Singhal, 3rd Year

Manisheka Negi, 3rd Year

ART

This year we invited more diverse entries in art forms and we received an overwhelming response from the students.



Being a classical dancer, I'd love to share one of my favourite snaps in the Odissi dance costume.

SHAGUN AGRAWAL, 3rd YEAR



The beauty of nature has always mesmerized me. It gives me immense pleasure and peace. Thus, I love being in the lap of nature. Blessed with a garden, I spend most of my leisure time taking care of the plants, trees and birds in my garden. Here's me harvesting tomatoes from the plants that I've grown under my father's guidance.

RAJLAXMI ADWANT, 3rd YEAR

BAKING



Blueberry Macarons



JAYA SHARMA, 3rd YEAR



Chocolate Cake



SIMRAN, 3rd YEAR



YASHITA JAIN, 1st YEAR



Sugar Cookies

MIXTAPE

The graduating batch of 2020 shared a few words of wisdom for their juniors and described their journey at LSR in one word.



SHAGUN AGRAWAL, 3rd year

The stage in your life when you can make the best version of yourselves, is College Life. You'll be exposed to a plenty of diverse opportunities. DO NOT hesitate to avail the ones that cater to your interests. Plan your career after graduation well in advance and give your best in everything you do. Remember, TIME is the MOST PRECIOUS resource, use it wisely.



SIMRAN, 3rd year

In the beginning, LSR might seem like a mini world of perfectionists, but as your journey progresses along, you would discover that you are just as good as anyone else. All you need to do is believe in yourself and work hard. If you give in your all to make the most of your time at LSR, this journey can become extremely magnificent and if you don't, it can easily become an equal level of daunting as well! But either way, learning is guaranteed.



MIXTAPE

