



8th
Edition

2021-22

ANNUAL MAGAZINE

EQUILIBRIUM



Department Of Chemistry
Hansraj College
University Of Delhi

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Salut readers!

With things returning back to the normal, students flooding the universities and schools, eateries and restaurants brimming with people, and everything seeming to fall into place, we are yet again back with our magazine- 'Equilibrium'.

COVID-19 has affected our society across many levels, and is most likely transform our lives in ways we are yet unable to anticipate. In this global fight against coronavirus, chemists have played a prominent role. From soaps and clean water to tests and new drugs, chemistry has been a paramount to defeat this threat and still continues to be.

While we flatten the curve to stop the spread of the coronavirus, we should not put other potential threats such as pollution, climate change, and circular economy on the back burner. Innovation in the chemical sciences is essential to change the current chemical and industrial landscape.

Coming back to this magazine, we would like to extend our heartfelt gratitude towards the entire team of Rasayanatva, who have pull out all the stops into publishing the first three editions of our Journal, JRCS. We would like to bid our earnest adieu to our seniors, who stood by us like a rock every single time. We would also like to acknowledge and revere the entire faculty members of our department for being patient and showing tremendous faith in us. Lastly, we would like you to believe that no matter how mind-bending things get, you have got this. Though glacially, you're going to be all good. Till then, hold on and enjoy what life has to offer you.

Your suggestions are more than welcome.

Thank you everyone!

Happy reading

Editors-in-Chief

Ritual Sharma and Anandika Gupta

Message from the Principal



**Dr. Rama
Principal**

Congratulations to the members of Chemistry department for publishing the sixth issue of their annual departmental magazine “Equilibrium”.

Students and faculty of the department are creatively enhancing this platform every year.

Efforts invested in the production and publication of this issue must have been an enriching experience for the students involved. I hope the magazine enjoys a wide readership.

Keep up the good work.

Message From Teacher – In - Charge

Dr. Jyoti Singh

I congratulate my colleagues and students for taking this initiative forward. This magazine provides the opportunity for self expression and knowledge sharing. I urge all the students and teachers to share their thoughts and experiences to enrich its content.



Message From Convenor

Dr. Satish Chand

It is my great pleasure to witness the eighth edition of our departmental magazine “Equilibrium”. I congratulate the whole team of Rasayanatva ‘The Chemical Society of Hansraj College’ for their continuous efforts. I would like to thank all my colleagues for their support. I wish all the graduating students a best life after their graduation. This unique batch of III yr will always be in memory. They are well equipped for online learning and can use the online resources in the best way. So, all the very best for your future and never forget your roots in Hansraj College. Always work for the betterment and improve yourself day by day. Never think that you are perfect, because that will be the time when you will stop learning. Learning is not the destination but the journey, so enjoy it. Stay in touch.



Parting Word

President – Kirti Kashyap ‘Taijas’

Farewell too soon...

Penning down this message was not easy for me, partially because of the fact that I was having my practical exams going on but mostly because of the reason that my cerebral cortex was not ready to process the thought that my college life was about to end. All thanks to COVID that our college lives were crucified. But these are difficult times for the mankind and being a student of science, the mystery with which the universe unfolds even in these situations, baffles me. I have been associated with RASAYANATVA since day one.



I started as a volunteer, became an anchor, Editorial Head and then the President of the society. The journey, however good, was not as I had planned it to be. First came the COVID, which almost impeded all activities that were going on and under such circumstances, we started a Journal named JRCS (which is still in its primitive age of development). I was the leading editor at that time when we started this and now as I am about to graduate, almost four issues of it have been published. Besides this, when I became the Head of the society, we took on our shoulder to teach general masses about day-to-day application of chemistry and we started a number of weekly Instagram series to do so. We also tried to inculcate many new ideas, some were a success and some taught us an important lesson.

Although, I started my message on an emotional note, I successfully swerved the topic because deep down I am still not prepared to accept the fact that how much my golden days were wasted and how different all our lives would have been if the pandemic had not occurred. Maybe, I would have successfully worn down a beautiful young lady, or may be something more unexpected would have happened. Much of our precious time was taken away from us and now we have nothing much left but the memories and memories bring back pain. That's the reason, I hate being emotional. But to be honest, the memories and moments that I have created in this limited span of time, is something that I'll cherish throughout my life.

I can proudly say today, that I have not only been tolerated but encouraged and supported by the greatest group of friends any one can have. When I was facing death, it was those little messages of “dhayan rakhna bhai”, “take care bro” and “get well soon” that kept me in the fight and that to me is the most treasured thing of my life. Besides my wonderful friends, I also was encouraged by some of the best teachers that anyone can find. There is the Inorganic and Organic Chemistry department having very sweet teachers, soft talking, loving, caring and strict like a mother; then there are the Physical Department teachers, assumingly having an image of being unnecessarily strict and annoying. But nothing can be more far from truth than this. In my experience, if the department of chemistry is a family and the organic and inorganic department fills in for mother in the family, the physical department fills the void of a father. They are like a father, who may scold you and beat the crap out of you, but in the end will always care for you, you know, like coconuts, hard and tough from outside but tender, soft and loving from inside. The slightest idea, that I’ll have to leave this wonderful family very soon, gives me chills and that’s why I hate emotions. But again, it’s the emotions that make you strong enough to live by these cherished moments.

A few more words before I stop. We are all scientists and in pursuit of science, it is important to remember that there is nothing such as setbacks and failures. Every time you are unsuccessful, you learn something new, that helps you too grow in a better version of yourself. To all young aspiring chemists, you can become whatever you want if you have that “can do” attitude in you. So never give up your scientific pursuits but also remember to enjoy your life, make friends and most importantly fall in love.

Live long and prosper

Until again we meet...!

Kirti

President

Rasayanatva

Vice President- Prashansa

I can recall in the most precise way one can, the very first time I did put Hansraj College on the google maps and the reciprocating voice, you have reached your destination, echoing after few minutes in my phone, while I was panicking and stress eating. Running all over the place, my anxious self was verifying, for the zillionth time, all the documents prerequisite for the admission and at the same time, undergoing the spectrum of emotions; tremendous joy, curiosity, amaze, looking with wide-eyed gaze at the hyped red walls, wall of fame, navigating the whole campus and the strange, somehow comforting aura around.



It was my first day to step foot in the college. Three years down the lane, I unknowingly experienced my college life amongst many haphazard things and it has been overwhelming to say the least. In this pyramid of college life, a pivotal place and comfort is tethered by the Chemistry Society. I am accompanied with honour and gratitude to serve as the Vice President at Department of Chemistry for this session. To curate a narrative, I started as a volunteer in the editorial team, partook as student coordinator at events like webinars, conference and this year I am very pleased to share senior council with two wholesome people, I am glad to meet and know and an utterly great bunch, the junior council, always there to shine and put in efforts. I wish all the love and best wishes to the team for the future endeavours and many heights that I am sure they will achieve.

Amongst everything in between, inevitably, chapter of college is about to end. There are memories(that exist in parts), I made in these three years and I would hold on to them. I would treasure and cherish them forever!

Regards

Prashansa

Vice President- Arpan Gupta

It feels like yesterday when I was dicey about joining Rasayanatva, being already part of quite a few societies. But Rasayanatva eventually "happened" to me and I can't be more grateful that it did.

It's been a great journey with a lot of learnings throughout. From designing posters for fests to coordinating different events; the knowledge and confidence that I gained from this experience are truly invaluable to me.



Hansraj will always hold a special place in my heart, for everything it has given to me. Farewells are always tough for me, but with a heavy heart and a faint smile, I would finally say "Goodbye.. "

Regards

Arpan Gupta

With us
ALWAYS!!

Rt.(Dr.Ranjana Rastogi)

Dr. Ranjana Rastogi, Inorganic Chemistry Department was highly valued, respected and loved by all her students and teachers as well. With a heavy heart department bade her adieu this year. Her prudent teaching, selfless dedication and substantial duty lead department from strength to strength.

Her in depth knowledge of Inorganic Chemistry was more than evident during her classes. Many students aspired to pursue higher studies in the subject because of her unique way of dealing with topics that made subject alive and ingrained the concepts in mind of every student.

Dr. Ranjana Rastogi will be missed for sure , not only by her students but also by her colleagues; but will never be Forgotten !!



Faculty



Non-teaching Staff



Left To Right

Sitting - Kamla Rani, Manoj Kumar, Sunil Kumar, Rakesh Kumar, Subhash Chandra, Satish Chand(Convenor), Sunil Arya, Balram, Ramesh Kumar

Standing - Liyakat Ali, Poonam Vasudeva, Muhammad Usman, Rohit, Ritesh, Sandeep, Kanwar Singh, Tarun, Tulsi Das, Shyam Lal

Council 2021-22



Left To Right

Sitting - Ayush Singh, Tripti Yadav, Khushi Mahajan, Prashansa Mehta(Vice President), Dr. Satish Chand(Convenor), Arpan Gupta(Vice President), Yashika, Ritul Sharma, Tanu Sharma

Standing - Sagar, Aniket Kumar, Murli Dhar Dubey, Mohd. Jishan, Kirti Kashyap 'Taijas' (President), Lakshya Aggarwal, Pawan Gangwar, Aashutosh Soni, Shashank Sahu

3rd Year



Left To Right

Row 1 – Prashansa, Vanshika, Saloni, Nikunja , Tanishka, Kirti, Himanshu, Jhanvi, Sakshi, Abhay, Shaifali

Row 2 – Yashit, Kailash, Sanjeev, Jagapathi, Hritik, Abhishek, Vijender, Sachin, Arpan

Row 3 – Pragya, Kamal, Priya, Sumit, Kanhaiya, Abhishek, Rithik, Sumit, Deepak, Shubham

Row 4 – Manya, Manav, Ratnesh, Heeralal, Himani, Mehak, Nandini, Harshit, Imran, Abhijeet

2nd Year



Left To Right

Row 1 - Khushi, Rashmi, Shalu, Drishti, Tripti, Priya, Swanti, Sneha, Saloni, Isha, Stuti

Row 2 – Aniket Kumar, Rahul, Lakshya, Jishan, Murli, Sahil Gahlotra, Jatin, Mahesh, Manan, Yash

Row 3 – Anuj, Kamlesh, Tushar, Kartik, Ashwani, Bharat, Saurabh, Vaibhav, Aniket Sharma, Shamil

Row 4 – Dinesh, Lucky, Sahil Khan, Divyansh, Praful, Ayush, Ajmal, Abhishek, Aashutosh, Abhishek Kumar

Row 5 – Chetan, Sagar, Khushiram, Mukul, Kunal, Himanshu, Nitin Mehto, Adam, Sandeep

Row 6 – Gargi, Yashika, Ritul, Pawan, Anshika, Ankita, Shashank, Unnmaya, Sudhanshu

Top Row – Vanshika Goyal, Vanshika Mehta, Seema, Tanu, Vibhor, Kishan, Kapil

1st Year



Left To Right

Row 1 - Uma ,Nazim ,Himani, Trishita, Divyanshi, Madhurima ,Gaurav, Nitesh, Sanjeet ,Sourabh

Row 2 – Manish, Sahil, Garina, Vaishali, Yashika, Deeva, Anjali, Ishika, Gehna, Varsha, Abhishek

Row 3 - Sidhant, Kamesh, Jagriti, Anita, Kashish, Radhika, Rashi, Anchal, Sheetal, Vinee, Oshika, Vivek

Row 4 - Mehak, Pragati, Yash, Nehanth, Ayush, Sourav, Garv Pahuja, Sneha, Diya, Vanshika, Lipsa, Ismita, Sukhman

Row 5 - Gabriel, Jatin, Jyothish, Prabath, Anuvind, Sidharth, Sreehari, Arnit, Anirudh, Sandeep, Akshay, Jatin

Row 6 - Yash, Tanuja, Sanchita, Poorna, Vishakha, Riyanshi, Shraddha, Mitali, Rupesh, Pankaj, Anudesh, Adnan, Anthony

Row 7- Arjav, Pritam, Deepak, Harsh, Anurag, Tanishque, Karan, Anuj, Nitin Sherawat, Tushar

Top most row - Nikhil, Sanjana, Shrika, Ashutosh, Krtikey, Karan , Ankit yaduvanshi, Ankit yadav, Harsh, Hitesh

Chem - Heist

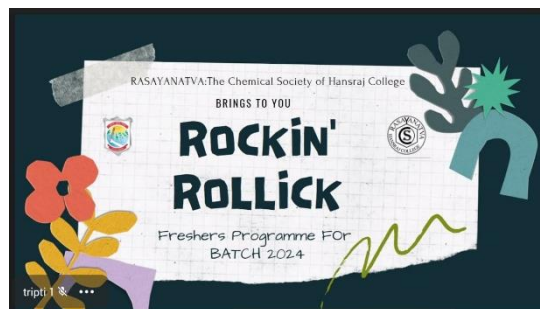
Learning is not attained by chance, it must be sought for with ardor and attended to with diligence. With that being said, Rasayanatva, the chemical society of Hansraj College had organised a event "CHEM-HEIST" to penetrate through 'Science and Technology' once again. The event specifically emphasized on Chemistry related science. All science background students were allowed to be the part of event. Quiz and presentation competition was organised for the students so as to put their knowledge to test and unveil their learning. Several sessions of chemistry riddles were there to insight our audience into the chem-world more deeply. The students were bombarded with chemistry related question whereas the enthusiastic audience were no less to answer. The session was marked by spirited participation of all volunteers and was a productive experience for all. The intriguing session was a success and came to a fruitful end with the declaration of results. The chemical society of Hansraj tends to endeavor the students with such events in future as well to continue the convention of learning.



ROCKIN' ROLLYCK

ONLINE FRESHERS PARTY

Iss saal fir, kuch naye chehre dikhenge..
Or saal k end tkk vo apne lgenge..
Ye chehre kuch sikhne aay h..
Par bhot kuch sikha b denge..
Hunar bht h inme..
Bas andaaz chodne ki der h..



On this warmth note, Rasayanatva, the chemical society of Hansraj College reactivated their freshers'22 by organising 'ROLLIN' ROCKING' on 15th January 2022 via online mode. Freshers' is something for which every newly admitted student eagerly waits for. But, due to these ongoing times of COVID-19, everyone is shattered due to their daily routine. Nevertheless, to facilitate the interaction among freshers, online mode seems to be the best of what we could make use of. The event succeeded by engaging our juniors in the games and riddles prepared by the seniors at their quirkiest level. However, our young budding juniors were no less. It seemed as if we had got a bunch of talented people doing poetry, dance, singing and many more. Fresh souls with happiness among themselves blossomed in the same way as the flower does in the spring. As we took them to a virtual tour of our college, nostalgia hit harder each face hoping that (maybe), they will get a chance to live that life. The most adorable part was the active participation of whole freshers batch in each game. They thanked their seniors for organizing such a satisfying event. We hoped to provide the best of what we could do for our beloved juniors.

Best of luck!!

Performance-5
Poem by Archi Kumar



kartikaya3305

reshabh3312

akash3380

Shresh Jadyapaha



ishika3377

shrika3388

gaurav3279

Dr. Satish Chand
Assistant Professor
Department of Chemistry

tripti 1

tripti13418



DIGITAL TRANSFORMATION AND CLIMATE CHANGE



With enhancing digital world, the Rasayanatva- the chemical society of Hansraj College in collaboration with IQAC Hansraj College organised a webinar on 'Digital transformation and climate change'. Prof. Sanjeev Singh, IIC Delhi was the speaker of webinar. Looking forward to leverage the latest computing, connectivity and analytics capabilities to increase operational efficiency, many organisations are persuing digital transformation initiatives. The webinar focused on the results of development of digital transformation technologies for risk management in natural industries system within environmental economy and climate change. Several queries of students and teachers were answered by the professor. The webinar ended with the vote of thanks by Dr. Sonu Kumar, the coordinator of the webinar



PLAGIARISM IN ACADEMIC WRITING



Recognising the importance of plagiarism in research work, Rasayanatva the Chemical society of Hansraj College in collaboration with IQAC organised a webinar on the topic 'PLAGIARISM IN ACADEMIC WRITING' on 20 November 2021. Our speaker for the session Mr. Rajesh Singh, University librarian and head, DULS briefed about the good scholarly practice. In order to write a good research paper, he spoke that a balance needs to be maintained between the ideas that you have taken from other sources and your own original ideas. He also informed the students about the UGC guidelines and regulations that need to be followed by the students while writing any academic work. The session was indeed very informative for the students to enhance their writing skills.



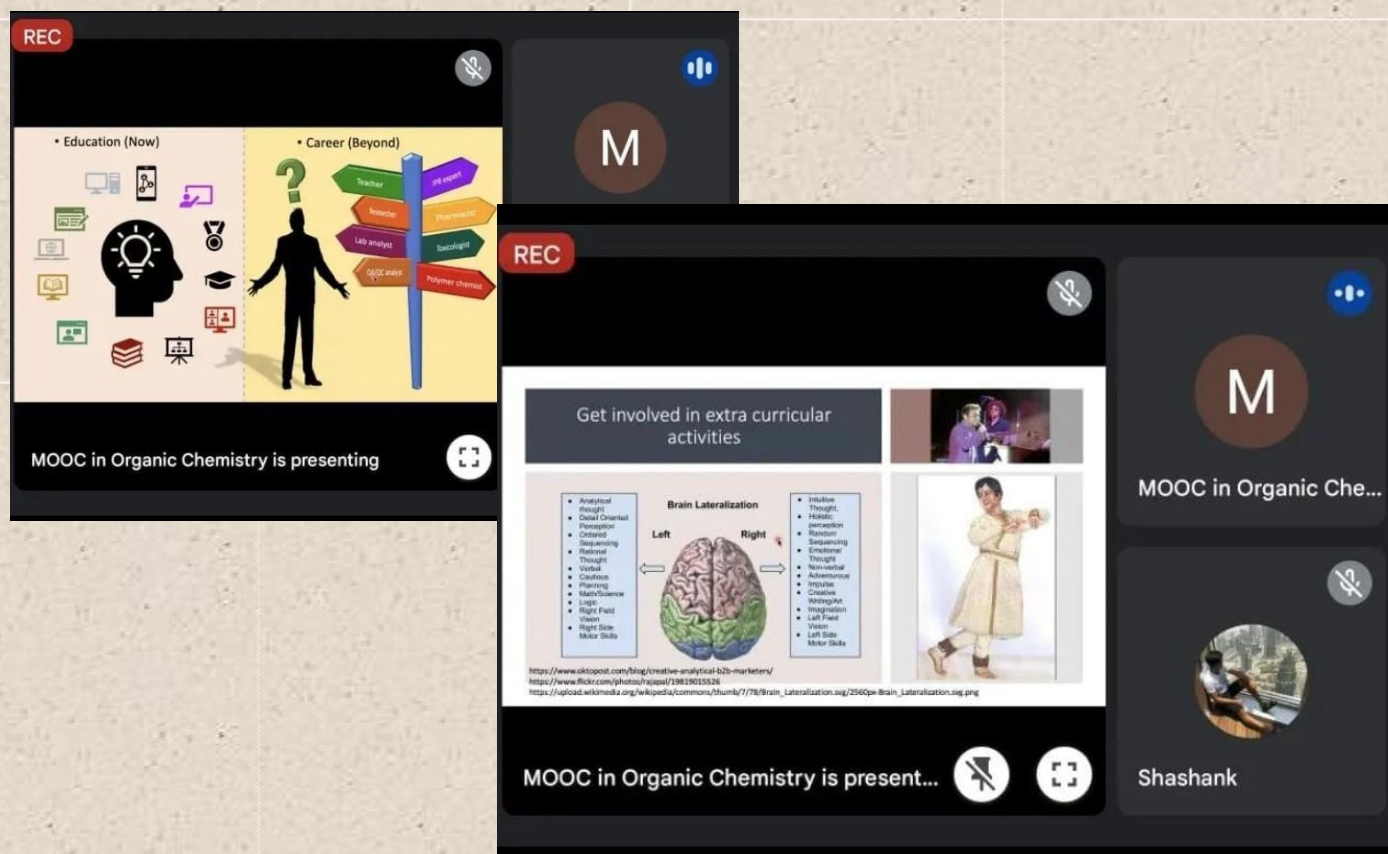
ENVIRONMENTALLY BENIGN SOLVENTS FOR SUSTAINABLE DEVELOPMENT



Rasayanatva, the Chemical society of Hansraj College in collaboration with IQAC organised a webinar on the topic "Environmentally benign solvents for sustainable development" on 23 October 2021. The speaker for the session Prof. Ramesh L. Gardas, is an associate professor of chemistry at IIT Madras. His major research interests include Ionic Liquids, Chemical Thermodynamics; Fluid Phase Equilibria, Group Contribution methods; Structure-Property correlations. He discussed the concept of green chemistry and the effect of green chemistry to overcome the negative impact of chemicals on environment and human health. He discussed the problems with volatile organic compounds (VOCs), need for alternative solvents as well as strategies of VOCs replacement while offering a strategic pathway to build a sustainable future. The session ended with the valedictory remarks by Dr. Satish Chand, assistant professor, Hansraj College.



PATH TOWARDS PROGRESS; NOW AND BEYOND



Rasayanatva, The Chemical Society of Hansraj College in collaboration with IQAC organised a webinar on the topic "Path towards progress: Now and Beyond" on 22nd January 2022

The speaker of the session Dr. B.S. Balaji is an associate professor in School of Biotechnology, Jawaharlal Nehru University, New Delhi. He briefed about the current education and its career beyond. He acquainted the students about the opportunities, activities and work in the field. Furthermore, he guided the students about plans to execute on the path. The session was indeed very useful for the students.



INTERNATIONAL CONFERENCE ON EMERGING TRENDS FOR CHEMICAL AND APPLIED SCIENCES FOR SUSTAINABLE FUTURE

'Sustainability is no longer about doing less harm. It is about doing more good'*.

~ Jochen Zeitz

To aware the student community on the same, a one-day international conference on 'Emerging trends in Chemical and Applied Sciences for Sustainable Future' was organized by Department of Chemistry in collaboration with IQAC, Hansraj College on 30 October 2021.

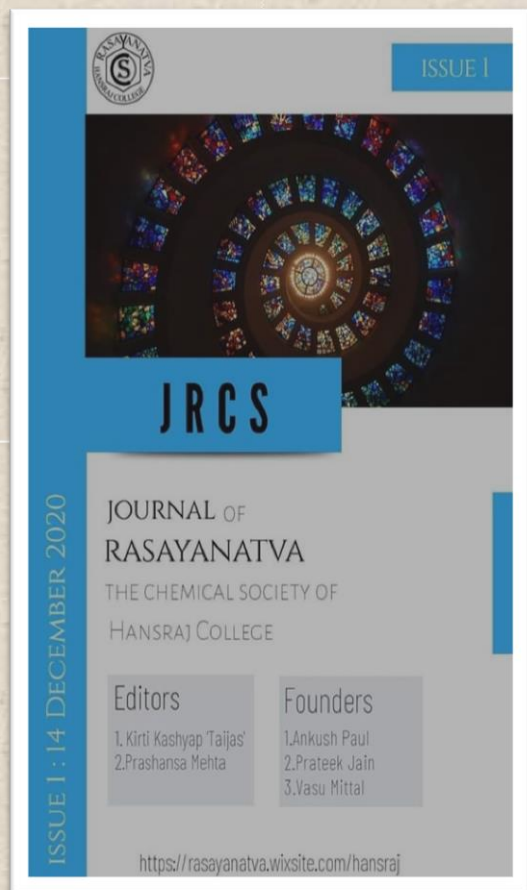
The screenshot shows a Zoom meeting interface. At the top left, there is a 'REC' button and a notification that 'Ayush Singh is presenting'. The main content area displays a presentation slide with the following text: 'DEPARTMENT OF CHEMISTRY HANSRAJ COLLEGE Presents INTERNATIONAL CONFERENCE In Collaboration With IQAC Emerging Trends in Chemical and Applied Sciences for Sustainable Future 30th October 2021 09:00 a.m. to 03:00 E-Certificates will be Provided'. On the right side, there is a grid of participant video thumbnails. Visible participants include Dr. Rama Sharma, Ritul Sharma, Kurian Digvijay, Adam Musa Adam, Ambika Singh, icotssf hansraj, aparna bansal, Khushi Gupta, and Dr. Farhat Jahani. At the bottom, there is a toolbar with icons for mute, video, chat, and other meeting controls. The meeting ID 'aym-ayfe-qqi' is visible in the bottom left corner.

The conference featured renowned scientists and Short talks on outstanding abstracts. It aims to get an exposure about what the best of the brains thinks about this very dynamic issue of Emerging trends in Chemical and Applied Sciences for Sustainable Future. The conference brought together the eminent science professionals, students and faculty members to get information about enhancing sustainable technologies through development of new binding technologies and to their recent finding on the range of topics related to sustainability. The conference was graced by the presence of distinguished personalities like Dr. Parminder Kaur, associate professor, Department of Chemistry, William Paterson University, USA who talked about 'Green Pathways for the C-C and C-X bond formation Reaction', Dr. Nagindra Kaushik, Associate professor, Department of electrical and Biological Physics, Kwaangwoon University, South Korea who acquainted everyone with 'Plasma Bioscience and Medicine: Past and Future', Dr. SP Singh, Principal Scientist, CSIR-National Physical Laboratory, Delhi, India, spoke on 'Nanomaterials: Prospects in Biomedical Applications', Dr. Ravindra Kumar, Senior Scientist, CSIR-Central Drug Research Institute (CDRI), Lucknow, UP, India who lectured on 'A Greener And Sustainable Approach to Multi-Functional Aromatic and Amine Feedstocks', Dr. Ajay Kumar Srivastava, Scientist, CSIR-Central Drug Research Institute (CDRI), Lucknow, UP, India who confabulated about 'Isocyanides toward Novel Molecular Frameworks'.

Apart from the lectures, a presentation competition on several chemistry related topics was also organized in which the students from different institutions participated enthusiastically. The conference, indeed, provided a great learning experience to the youth and is expected to be mutually beneficial for young researchers and students.



CARRYING FORWARD THE LEGACY...



Journal: Our seniors put all their efforts to initiate a scientific journal/research newsletter namely JRCS- Journal of Rasayanatva, The Chemical Society of Hansraj College in their session. We could not be more happier by continuing our lore to introduce our third issue of Journal which comprises of every comprehensive detail about nanoparticle. The Journal is bound to satiate your mind with eclectic range of topics of nanoparticles and quench your thirst for scientific literature. The central idea behind launching the journal is to foster scientific temperament and inculcate a rational approach amongst students. As of now, we have successfully released three issues which are available at our website too.

Factophile: The release of Instagram series called 'Factophile' brings an interesting facet of science by revealing the mysteries of daily life that might be explained by chemistry. Our core team continued this trend of Instagram post on Weekly basis. Under this series, we have covered a wide range of topics such as facts behind the clay pots, peculiarities about milk vs curd and many more interesting scientific facts.

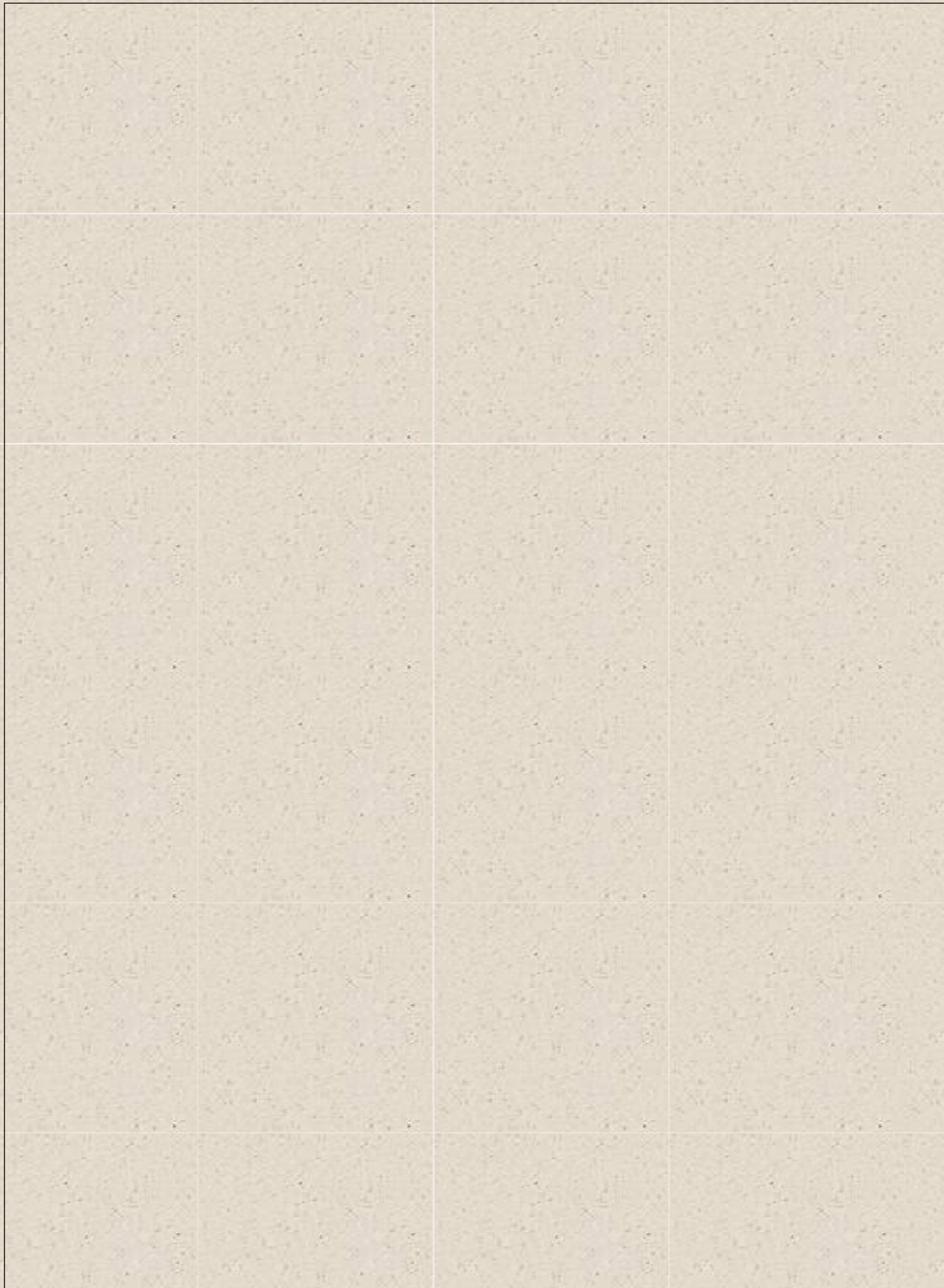


TURNING OVER TO THE NEW LEAF...

Chem-o-shorts: We are highly obliged to mention our release of new Instagram series called 'Chem-o-shorts.' Fascinated by the trend of reels, we decided to convey the information via small videos. Under this series, we have made the shorts covering wide range of topics such as hand-sanitizer, ventablack, smell of books, lightening of fireflies. All of these have been posted on our Instagram page.

ABC series: A new Instagram series called 'ABC series' was also introduced to our page. Under this, we have introduced some riveting facts about various chemical compounds starting from A to Z. the posts are released on the weekly basis. The compounds such as Aqua Regia, Bitumen, Copernicium and Dysprosium have been covered till now.

The image shows two promotional posters for Instagram series. The left poster is for 'CHEM-O-SHORTS' and features the text 'RASAYANATVA The Chemical Society Of Hansraj College Presents CHEM - O - SHORTS WHY DO PEOPLE LIKE THE SMELL OF BOOKS?'. The right poster is for 'ABC OF CHEMISTRY' and features the text 'RASAYANATVA THE CHEMICAL SOCIETY OF HANSRAJ Presents The Series ABC OF CHEMISTRY' followed by a list of facts about Aqua Regia: 'Also known as royal water and nitro-muriatic acid, Aqua regia means "king's water" in Latin.', 'Highly corrosive mixture of concentrated hydrochloric acid (HCl) and nitric acid (HNO3) in the optimal molar ratio of 3:1.', 'Usually reddish-orange or yellowish-orange in colour.', and 'Has the distinct ability to dissolve noble metals like gold, platinum and palladium.' The title 'AQUA REGIA' is at the bottom.




'I AM CHEMISTRY

Starting from atoms to ending at matter,
Full of electronic configuration for it seems better.
Inorganic, physical, organic are my branches,
Named reactions & equations in your mind
dances.

The periodic table is my pride,
With various groups & periods at your side.
General trends sounds an easy way,
Till the exceptions comes into play.

Coming to miss Physical,
She is incomplete without numerical.
Pressure, volume and temperature- the basic
units,
In every chapter, ideal gas equation fits.

Life is itself a Chemistry,
Running behind calm and stability.
Money, luxury, shelter are all catalysts,
Required to balance the equilibria of life.
Yes, I AM CHEMISTRY!
Full of exceptions and mystery.....



Gehna Ratra
1st year

Suppression of Truth

Masks masks are everywhere,
Who made it necessitate to wear,
 Behind it!
There are lots who hide their fears,
Whilst others hold their tears,
Some judgmentals raised their hands,
They said “judging is just a new trend”
Albeit, judgementals too hide behind masks,
They all are frustrated for their unfinished
tasks,
But who made it necessitate to wear,
Oh, then I realized the reason behind why
the hell is no one kind?
All judgementals are filled with despise,
They think themselves exceptionally wise,
Whats the another reason otherwise?
How we all gonna deal with them, OH!
CHRIST!!!!



Pawan Gangwar
2nd Year

JOURNEY OF LOVE

-From the eye to the heart-
I was travelling

Got lost in a spectacular place unknown
Dark, but beautiful
It was your eyes

Looked astonishing
An ocean of stars, my mind was blown
Huge, yet wonderful
It was your eyes

Down there was a stream
Full of hopes and willingness
Shining in the blues
That calmed me
Made my disturbance a little less

Be in your eyes
Felt the whole universe void
Recovered the peace and quiet
All the chaos, completely destroyed

As followed by me
A guarded track to your heart
Got so bruised while getting across
As well-made-barriers were a part

By the end, existed a bewitching castle
Of which I was made to be the Queen
A promise to live together till the end
And be there with my King
Forever unseen



Garv Pahuja
1ST Year

CHEMISTS AND DRUGS

ABSTRACT

The role of the medicinal chemist in drug discovery has undergone major changes in the past 25 years, mainly because of the introduction of technologies such as combinatorial chemistry and structure-based drug design. As medicinal chemists with more than 50 years of combined experience spanning the past four decades, we discuss this changing role using examples from our own and others' experience. This historical perspective could provide insights in to how to improve the current model for drug discovery by helping the medicinal chemist regain the creative role that contributed to past successes.

MAIN

Medicinal chemists prepare and/or select appropriate compounds for biological evaluation that, if found to be active, could serve as LEAD COMPOUNDS. They then evaluate the STRUCTURE–ACTIVITY RELATIONSHIPS (SARs) of analogous compounds with regard to their in vitro and in vivo efficacy and safety. Today, medicinal chemists who are engaged in drug discovery are part of interdisciplinary teams, and must therefore understand not only the field of organic chemistry, but also a range of other disciplines to anticipate problems and interpret developments to help move the project forward. As highlighted in this article, the role of the medicinal chemist has changed significantly in the past 25 years. In the early era ('then') of drug discovery (1950 to about 1980), medicinal chemists relied primarily on data from in vivo testing. In the more recent ('now') period (about 1980 to the present), the development of new technologies, such as high-throughput in vitro screening, large compound libraries, COMBINATORIAL TECHNOLOGY, defined molecular targets and structure-based drug design, has changed that earlier and relatively simple landscape. Although these new technologies present many opportunities to the medicinal chemist, the multitude of new safety requirements that have arisen has also brought unanticipated hurdles for the task of translating in vitro activity to in vivo activity.

Simultaneously, the knowledge base that supports drug research has expanded considerably, increasing the challenge for chemists to understand their fields of expertise. The demonstration of adequate clinical safety and efficacy in humans has also become more complex, and ever-increasing amounts of data are now required by regulatory agencies. In fact, despite the use of many new technologies, and the growing resources and funding for drug research, the number of launches of new medicines in the form of NEW MOLECULAR ENTITIES (NMEs) has been generally decreasing for more than a decade. Clearly, the difficulty and complexity of drug research has increased in the past two decades. It is our aim with this article to discuss how these changes have influenced the role of medicinal chemists and to suggest ways to help them to contribute more effectively to the drug discovery process.

DRUG DISCOVERY

Step 1- TARGET IDENTIFICATION AND VALIDATION

Target identification and validation kicks off the whole drug discovery process. Naturally occurring cellular or modular structures that appear to play an important role in pathogenicity or disease progression are normally targets for therapeutics. A good target needs to be efficacious, safe and be accessible by the drug molecule/meet clinical needs of the prospective patient. Following identification of the drug target, a systematic validation approach should be adhered to for the mode of action of lead candidate to be assessed for efficacy. The approach itself depends on the therapeutic area, but has a set of general principles that include disease association, preclinical evidence in key cells, preclinical evidence in intact systems (i.e. transgenic animals), and literature survey and competitor information.

Step 2 – HIT IDENTIFICATION VALIDATION

The obvious next step is to identify whether the small molecule leads have the desired effect against the identified targets. There are a number of approaches by which hits can be identified, including high-throughput screening, knowledge-based approaches, and virtual screening. Validation of hits is required following initial screening, and again there are a few options to choose from.

Step 3 – MOVING FROM A HIT TO A LEAD

After a number of hit series have been established, the aim at this point is the refinement of each hit series in order to produce more selective compounds.

Multiple series should be worked on in tandem, as it is likely that some hit series will fail, often due to particular characteristics of the series. Focusing on multiple structurally different sets of hit series will help to offset this possibility.

Step 4 – LEAD OPTIMIZATION

An overview to the drug discovery process including Lead Optimization and Late Lead Optimization At this stage, the aim is to maintain the desired properties of lead compounds while improving on possible deficiencies of their structures, with a view to produce a preclinical drug candidate. This stage can be used to find out whether your drug metabolizes in the right area of the body, or whether there are currently any side effects that are cause for concern. For this process, an integrated approach is recommended. The combination of specialists in computational chemistry, medical chemistry, drug metabolism, and other areas can provide unique insights into this late stage of the process

Step 5 – LATE LEAD OPTIMIZATION

Before progression to preclinical and clinical trials, late stage optimization, in which further pharmacological safety of a lead compound is assessed, is a vital step. If this stage is overlooked, problems in efficacy, pharmacokinetics, and safety are more likely to occur later on in drug development. Safety optimization is a core stage, the aims are to identify and progress the leads with the best overall safety profile, remove the most toxic leads, and establish a well-characterized hazard and translational risk profile to enable further in vitro tests.

DRUG DEVELOPMENT : The Stages of Developing a Drug

1. Early Drug Discovery
2. Preclinical Research
3. Investigational New Drug Application
4. Clinical Research
5. Regulatory Review, Approval and Post-Marketing Safety Surveillance



Ashutosh Tiwari
1ST Year

Dreams and Goals

“A goal without a plan is just a dream “ said Brain Tracy

No one can deny that one of the most appreciable things we humans are gifted with is our unquenchable desire to have dreams of better life. Most interestingly we also have the ability to set goals to live out those dreams . one can look deep within their hearts and dream of better situation for ourselves and our family ,dream of better career, better financial lives, better lifestyle. moreover what makes this dream more powerful is that we have the ability to not only dream but also to set goals and strategies to make those dreams come true .

At college going stage ,most of the youth have big dreams in life but lack strategies and plan to achieve it .Dreams are not whats we see when we are asleep but those which don't let you sleep.(said Abdul kalam) . Being a student ,there is always a dilemma about how to balance your college commitments and your ultimate dream.Now how you can really visualize your dreams lets put some light on it

- **Where do I stand and where have I reached** . Its always important to have vision and lokk where u really stand .Everyday when you wake up from the bed you wake up for a purpose to fulfill your duties,a purpose to put a step ahead towards your dreams.Break your goals into parts and try to achieve it in stipulated time .For e.g you thought of doing two internships this year and you ended up doing 3-4 internships ,this is what where u create a bench mark. “ If you have a strong commitment to your goals and dreams,if you wake up everyday with a passion to do your job ,everything is possible.”
- **Be Creative and Bold** . It has been truly said that creativity arises from the ability to see things from different angles when you start believing in yourself and become creative you will ultimately start moving forward towards your dream.

- **Prepare for the worst.** Upgrade your self daily .Prepare yourself to face any obstacles that come on your way to your goals and dreams.We all want luxurious life but no one us ready to face the challenges and obstacles involved to take a lead .So prepare yourself for the worst.
- **Say No to Comfort Zone** Come out of your comfort zone. Don't try those things which you already know instead try those which seems challenging. Always remember, beyond your small world of few people, there exists a world where there are epitome of opportunities waiting for you,lots of people you need to know and many other chances to develop. It would be little absurd in initial days, but gradually you will get acquainted to such changes and challenges. Imagine the day when you went to give your first interview and came out of your comfort zone in order to get break through..

So! Get ready to have a fantastic ride on the roller coaster of your dreams, with lots of ebbs and lows, ups and downs but once you start moving ahead there will be no turning back.Think about what really thrills you. When you are quiet, think about those things that really get your blood moving. No other people. No cell phone. No computer. Just you, a pad, a pen, and your thoughts.



Anurag Singh
1st year

Some Chemistry Facts

- What useful resources are there in asteroids and how can they be extracted? ? ?

Asteroids are mostly made up of iron or rocky rocks, but they also contain rare earth elements. They are very difficult to mine on our planet, and they are very necessary for making electronics

According to scientists, bacteria can help extract useful resources from asteroids. In 2019, 19 devices called "biomining reactors" containing a solution with bacteria were sent to the ISS. Some types of bacteria are able to attract and bind rare-earth elements. To find out which microbes do this best, ISS crew members placed each device inside a KUBIK reactor, which can maintain a certain temperature inside. It also recreates the gravity of Mars, the Moon, Earth and other planets using a centrifuge.

It turns out that *Sphingomonas desiccabilis* bacteria are the best at extracting useful resources.

They were able to extract about 70% of the cerium and neodymium contained in the basalt sample particles”

- Strange on Magnetic Magic

The most powerful magnetic fields in the universe are from magnetars- neutron stars with crazy magnetic fields. How crazy? On Earth, your typical magnet has a strength of about 1.25 Tesla. A magnetar will have 1,010 Tesla. This is so strong that the magnetic field would literally kill you if you get within 1,000 kilometres of the magnetar by distorting the electrons in your body too much. All the electrons in the atoms in your body would be stripped away, so all the molecules would break apart. So, you'd be ionized into a whiff of plasma, basically.

- Volcanic Water

There's Lots of Water in the Most Explosive Volcano in the World

Shiveluch Volcano

Shiveluch volcano has had more than 40 violent eruptions over the last 10,000 years. Researchers from the Krawczynski lab looked at small nodules of primitive magma. The researchers found that the conditions inside Shiveluch include roughly 10%-14% water by weight (wt%). Most volcanoes have less than 1% water. For subduction zone volcanoes, the average is usually 4%, rarely exceeding 8 wt%, which is considered superhydrous.

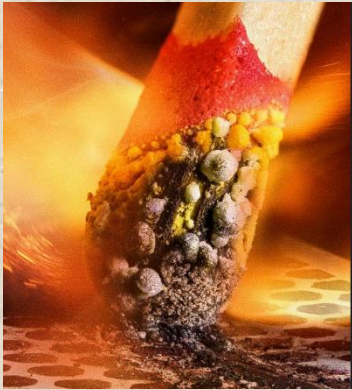
Of particular interest is a mineral called amphibole, which acts as a proxy or fingerprint for high water content at known temperature and pressure. The unique chemistry of the mineral tells researchers how much water is present deep underneath Shiveluch.

When you convert the chemistry of these two minerals, amphibole and olivine, into temperatures and water contents as we do in this paper, the results are remarkable both in terms of how much water and how low a temperature we're recording.

- The Ghost Particle

Neutrinos are among the most abundant particles in the universe, and yet are hard to detect. They are similar to electrons, but they have no electrical charge and their mass is almost zero, so they interact very little with normal matter as they stream through the Universe at near light-speed. Billions of neutrinos are zipping through your body right now. Hence, they are called "ghost particles"

- A matchstick Igniting by the friction surface of the matchbox



- Life Oxidiser

Oxygen is necessary for human life, but at the same time it oxidises our cells, which leads to aging

- GRAPHENE, I AM THE BEST

GRAPHENE is the strongest material. It is 200 times stronger than steel. It would take an elephant balancing on a pencil to break a sheet as thin as paper



Nandu Dinesh
1st year

Beti Hu Janab

Papa Ka Gaurav Mai,
Ma Ka Gurur Mai,
Beti Hu Janab,
Sirf Samaj Se Hi Majbur Hu.
Papa Ki Pari Mai,
Ma Ki Ladli Hu,
Beti Hu Janab,
Isliye toh Apne Sapno Se Dur Khadi Hu.
Ma Ka Maan Mai,
Papa Ka Samman Hu,
Beti Hu Janab,
Tabhi Toh Shikar Hone Tak Anjan Hu.
Papa Darte Hai Mujhe Sham Ko Bhi Bhar Bhejne
Se,
Ma Toh Din Me Bhi Meri Shalamti Ki Duaye Magti
Hai,
Beti Hu Janab,
Haalat Nhi Waqt Dekhkar Laut Aati Hu.
Ganga Si Paawan Mai,
Yamuna Ka Behta Pani Hu,
Beti Hu Janab,
Sirf Nau Din Ke Liye Hi Mani Jati Bahbani Hu.
Aagan Ki Holi Mai,
Ghar Ki Diwali Hu,
Beti Hu Janab,
Patajhad Me Bhi Le Aati Hariyali Hu.



Jagrati Prabhakar
1ST Year

मैं यहीं हूँ

समंदर में लहरें उठें तो मुड़कर देख लेना मुझे क्योंकि किनारा मैं हूँ, बारिश में आँखें भर जाएँ तो बहने न देना इन्हें क्योंकि बारिश मैं हूँ, सफर थम जाए अगर ये तो याद कर लेना मुझे क्योंकि वक्त मैं हूँ, दिल घबराए कहीं पर तो महसूस करना धड़कनें क्योंकि दिल मैं हूँ।

हवा के तेज़ झोंके से मुँह न फेरना, उस ठंडे एहसास में मैं हूँ, इत्र की उस खुशबू को कभी उतरने न देना, वो लिबास मैं हूँ, जब न समझ आए कुछ तब बस आँखें बंद कर के ढूँढना मुझे, उस अंधेरे में रौशिनी बन कर साथ चलने को तैयार मैं वहीं हूँ, मैं यहीं हूँ !



Stuti Gupta
2nd year

मेरी खुशनसीबी

खुदा की रहमत है मुझपर
जो जीवन के इस मोड़ पर हमें आप मिल गए,
वरना दूढते तो कई थे कई को
लेकिन सुबह होते ही वो रात की तरह गुम हो गए।

खुसकिसमत होता है वो इंसान
जिसे बिना कसमकस के कोई आपसा मिल जाए,
वरना कहने को तो सात जनम है
लेकिन आपसा मिलना वो भी कम पड़ जाए।

हे ईश्वर ! तू भी कितना अजीब है
लाखो मिलकर बिछड़ जाते हैं तेरी इस दुनिया मे,
लेकिन तू उसे उससे मिला ही देता है
जिसका जिससे मिलना लिखा होता है उसकी नसीब में।

कितने खुश हैं हम क्या बताएं
कब तक इसे ज़ाहिर कर यूँ कलम को चलाएँ,
क्योंकि इन खुशियों की सीमा दूढने से तो मिलती नहीं
चाहे दूढते दूढते सैकड़ो कलम यूँ ही खत्म हो जाए।

ये खुशकिस्मती है हमारी हमे आपका मिलना
ऐ खुदा एक और गुजारिश है तुझसे,
की मिला तो दिया है उन्हें मुझसे
पर उम्र भर का साथ हो इसका खयाल रखना।

आप भरोसे से हमपर भरोसा कर गए
हमने उसे बरकरार रखा तो हम दोस्त बन गए,
ये खुदा की रहमत ही तो है मुझपर
जो जीवन के इस मोड़ पर हमें आप मिल गए।



Aniket Soni
1st year

मेरी माँ

ममता की मूरत, लुभावानी है सूरत
ऐसी है मेरी माँ खूबसूरत ।

उसकी छाया में पाती हूँ सारा जहान,
किन शब्दों से वर्णन करूँ मेरी माँ है महान ।
कहते है माँ धरती पर है भगवान,
ऐसी देवी का शुरू करते हैं गुणगान।

जिसने मुझे जन्म दिया, जिसने मेरा नामकरण किया,
सच में भगवान ने मुझे अनमोल उपहार है दिया,
इनकी पवित्र गोद मे अपना सिर रखकर,
पाती हूँ अनंत खुशियां मैं क्षणभर।
मेरी पूरी दुनिया है उसमें समाई,
ना जाने यह बात वह कितना है समझ पाई।

कैसे बताऊँ माँ तुझको कितना मैं चाहूँ,
तेरे बिना तो मैं खुद को भी ना जानू,
तू ना रहे तो मैं ना रहूँ,
तू ना हँसे तो मैं ना हँसूँ,
तू जो रोये तो मैं भी रोऊँ,
हर डगर पर तेरा साथ मैं निभाऊँ।

जिस दिन तेरी साँसें थम जाएगी,
सच कहती हूँ माँ मेरी दुनिया उजड़ जाएगी।
मेरी दुनिया उजड़ जाएगी.....



Praggati Raya
1st year

तुम

मैं सवाल तो जवाब हो तुम,
मैं पन्ना तो किताब हो तुम।
मैं हवा तो एहसास हो तुम,
मैं लब्ज तो आवाज हो तुम।
मैं सोऊं तो सपना हो तुम,
मैं जागूं तो किस्मत हो तुम।
मैं चलूं तो अंदाज हो तुम,
मैं रुकूं तो लम्हा हो तुम।
मैं इच्छा तो ख्वाहिश हो तुम,
मैं रूठू हूं तो फरमाइश हो तुम।
मैं चाहूं तो चाहत हो तुम,
मैं खामोशी तो आहत हो तुम।
मैं दूर तो पास हो तुम,
मैं धड़कन तो सांस हो तुम।
मैं दिल तो जान हो तुम,
मैं दुनिया तो जहान हो तुम।।



Jagrati Prabhakar
1ST Year

बचपन की दुनिया ही अलग थी

बचपन की दुनिया ही अलग थी
माँ की आंचल में ही मेरी दुनिया पनपती थी
मेरे हलचल से ही पिता की आँखें चमकती थी
बचपन में हर काम में मिलता सुकून था
दोस्तों को देखकर उफनता जुनून था
जब मेरी माँ मुझे गोद में लेकर चलती थी
मुझको रोता देख, पिता की आँखें छलकती थी
इस घर, उस घर, ना मेरा और ना तेरा था
सब में प्रेम की भाव थी, हर जगह पे डेरा था
बचपन में सिर्फ़ खुशी की थी उमंगे
नए खिलौनों को पाकर मन में उठती थी तरंगें
करता रहता था, मैं बहुत सी शैतानियां
टाला जाता था, मेरी गलती को समझ के नादानियां
असली खुशी परिवार और बचपन के दोस्त संग थी
प्यार इतना मिला कि उससे लबालब हर एक अंग थी
फिर से बच्चा बनकर उसी दुनिया में खोना चाहता हूँ
अब अगले हर जन्म में सिर्फ़ बचपन ही जीना चाहता हूँ !.



Pritam Kashyap
1st year

शिक्षक दिवस

तुम सृष्टि के रचैता हो,
तुम हो सृष्टि के पालन हार,
और समय आने पर
तुम कर सकते सृष्टि का संहार।
तुम रश्मि की किरणें हो,
तुम हो वो प्रज्वलित दीप,
जिसके आलोकमय प्रकाश से
नहीं आता अज्ञानता का तम समीप।
तुम त्याग तपोबल की मूरत हो,
तुम करुणामयी ईश्वर की सूरत हो,
तुम हो राम कृष्ण की पूजा,
तुमसा जगत में नहीं कोई दूजा।
तुमसे छल करने वाले को
ईश्वर भी नहीं करते क्षमा,
हर बार छली राधेय के स्यंदन को
धरा लेती खुद में समा।
किंतु जो करे तुमसे वफ़ादारी,
ईश्वर उसी का पक्ष धरते हैं,
उसकी रक्षा करने हेतु,
स्वयं पृथ्वी पर उतरते हैं।
हे बहुमुखी प्रतिभा के धनियों,
हे मृत्यु लोक के अद्वितीय मणियों,
तुम रखना सदैव अपनी कृपा अपार,
है तुझको प्रणाम शत कोटि बार।



Kirti Kashyap
3rd year

**Bidding
Adieu**

SLAMBOOK 2022



SNAPSHOTS



SNAPSHOTS

SNAPSHOTS



SNAPSHOTS



Hansraj Life in One Word:- Strange but Beautiful

Tanishka Sharma

- First crush :-Crushing under assignments since first year .
- Something you will miss the most :-Apart from chilling in weighing room of lab 5, I'll miss OBEs.
- Your most memorable moment:-I really can't think of any one big moment to be special or memorable. Thinking about those small moments between the classes, finding reasons to escape from the labs and and even all those unsuccessful mass bunks brings a smile on my face.
- Song that describes your life :- Khaabon Ke Parindey x Who Says Favourite hangout spot :- Hanging out in Kamla Nagar from nowhere to nowhere was my favourite thing to do in the evenings.
- Person who inspired you to become a better version of your self :- I've learned a lot of things from lots of people.



**Hansraj Life in One Word:-
Agathokakological**

Kirti Kashyap 'Tajjas'

- First crush :-Actually there are two. I won't reveal their names but one is from my batch and she was a part of our society too. The second one is not crush exactly. It's more of a platonic nature. She is a professor from our department.
- Something you will miss the most :-My crush, my friends and of course my entire chemistry family and specially the physical chemistry department. Physical department people are just wonderful and I just love them all.
- Your most memorable moment:-How many memories can a man create in 8 months of college life but some you insist then I guess it would be the time when I became the President of Rasayanatva and also when I first time recited my poem in the amphitheater.
- Song that describes your life :- There are actually two songs: 1. to life, to life, I'chaim and 2. The elemental song by Tom Lehrer
- Favourite hangout spot :- There was a kulfi wala in Hudson lane. I used to walk there with my friends every alternate evening.
- Person who inspired you to become a better version of your self :-The entire chemistry department in general but PC department in particular. Also, there is Ankush (my senior), some of my friends and then there is me. I inspire myself a lot.

Kanhiya

- First crush :- No one
- Something you will miss the most :- Fest and fresher party
- Your most memorable moment:- Fest
- Song that describes your life :- All is well
- Favourite hangout spot :- LP
- Person who inspired you to become a better version of your self :- Rama Mam



Hansraj Life in One Word:- Good

Sanjeev Yadav

- First crush :- Library
- Something you will miss the most :- Corona
- Your most memorable moment:-Corona
- Song that describes your life :- Hostel Life
- Favourite hangout spot :- PG
- Person who inspired you to become a better version of your self :- Me



Hansraj Life in One Word:- Corona



Hansraj Life in One Word:-
Fascinating

SHREYA

- First crush :-I don't remember
- Something you will miss the most :-
Friends
- Your most memorable moment:-
Chemistry labs
- Song that describes your life :- Liggi
- Favourite hangout spot :- Sudama
- Person who inspired you to
become a better version of your
self :- Probably some teachers like
Sonu sir Anjali mam Himanshu
mam Ambika mam

Himanshu Sonic

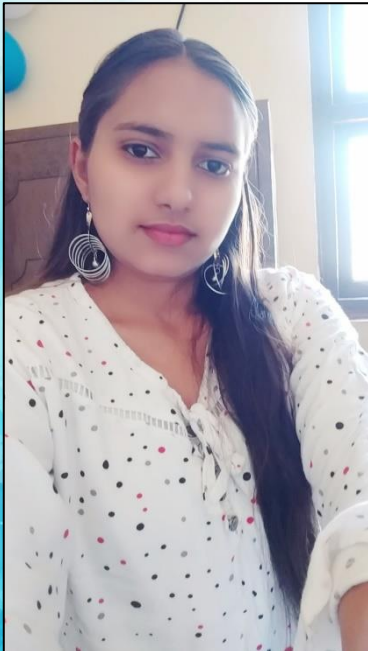
- First crush :-Naam lunga toh badnaam hojaayegi
- Something you will miss the most :- Evening walk with my ♥□
- Your most memorable moment:- Trip : Manali and Rishikesh
- Song that describes your life :- Abhi na jao chhod kar....
- Favourite hangout spot :- VC Lawn
- Person who inspired you to become a better version of your self :- My seniors (sabhi ne kuch na kuch accha sikhaya hai)



**Hansraj Life in One Word:-
Entertaining**

Sonam Amarghade

- First crush :- Krishna
- Something you will miss the most :- Friends and random trips
- Your most memorable moment:- Fresher's
- Song that describes your life :- Yaara teri yaari ko..
- Favourite hangout spot :- VC Lawn
- Person who inspired you to become a better version of your self :- Kirti



Hansraj Life in One Word:- Adventure



Hansraj Life in One Word:-
Entertainment

Sumit (Radical)

- First crush :- English (H) wali
- Something you will miss the most :- The thing I am gonna miss the most is Hustle at LP area. 2nd one is the fun and laughter with my classmates in thr canteen. Renu ma'am ka daatna bhi miss krunga..□ □ ..lab ke expired chemicals ko miss krunga.. □ □ ..last but not least..Chemistry department poora miss hoga..□ □
- Your most memorable moment:- Most memorable moments were fun with friends in the lab..when we used to talk a lot and work as well. Apart from that spending time with my crush □ (without letting her know that she was my crush □) was another special moment.
- Song that describes your life :- 1. Unstoppable (Dino James), 2. Ek ladki ko dekha to aisa laga..(and college nikal gya..□)
- Favourite hangout spot :- I prefer solo trips. So..I used to wander randomly at different places. There isn't any specific spot..□
- Person who inspired you to become a better version of your self :- My 3rd crush..□ , Chetna ma'am and Gunjan maam. PS :- All three are different people.

Bhawna Singh

- First crush :-Not in college
- Something you will miss the most :-These whole three years
- Your most memorable moment:-Every moment
- Song that describes your life :-
- Favourite hangout spot :-....
- Person who inspired you to become a better version of your self :- My friends and professors



Hansraj Life in One Word”-.....

Shubham Chander

- First crush :-Kuch baate batayi nhi jaati
- Something you will miss the most :-Physical ke practicals..... after submitting experiment :- #wrong #doexperimentagain
- Your most memorable moment:-Always unsuccessful in mass bunking classes/labs.
- Song that describes your life :-
- Favourite hangout spot :- hudson lane , amba
- Person who inspired you to become a better version of your self :-Dr. Brijesh rathi



Hansraj Life in One Word:-
One words isn't enough

Sachin Sharma

- First crush :-Name is unknown to me
- Something you will miss the most :- Friend Circle and Campus
- Your most memorable moment:-Hindi Diwas celebration and 2020 Fest
- Song that describes your life :- Fikar Not
- Favourite hangout spot :- Canteen
- Person who inspired you to become a better version of your self :- Friends



Hansraj Life in One Word:- Enduring

Hitesh Kumar Singh

- First crush :- Not a thing to talk about publicly.
- Something you will miss the most :- Chemical Bond with friends.
- Your most memorable moment:-The massive protest going on today OR probably the freshers in the first year.
- Song that describes your life :- Dead and Gone
- Favourite hangout spot :- Whatsapp
- Person who inspired you to become a better version of your self :- Brijesh Rathi Sir



Hansraj Life in One Word:- Assignments

Arpan Gupta

- First crush :-Just one? ;)
- Something you will miss the most :- LP and C-Block for sure☐
- Your most memorable moment:- Unofficial, College fests,After parties☐ ♥
- Song that describes your life :- Zindagi ke safar mein guzar jate hain jo makam, Woh phir nahin aate :)
- Favourite hangout spot :- "Chlo Hudson hi chal lete hai!.."
- Person who inspired you to become a better version of your self :-Maybe, MYSELF!



Hansraj Life in One Word:-Short Lived

Priya Rathore

- First crush :- Lee min ho
- Something you will miss the most :-Gossips we do during labs sitting on floor .
- Your most memorable moment:- Freshers when boys wear the sarees.
- Song that describes your life :- L lag gye ☐
- Favourite hangout spot :- College canteen
- Person who inspired you to become a better version of your self :-Kirti ☐



Hansraj Life in One Word:-Exquisite



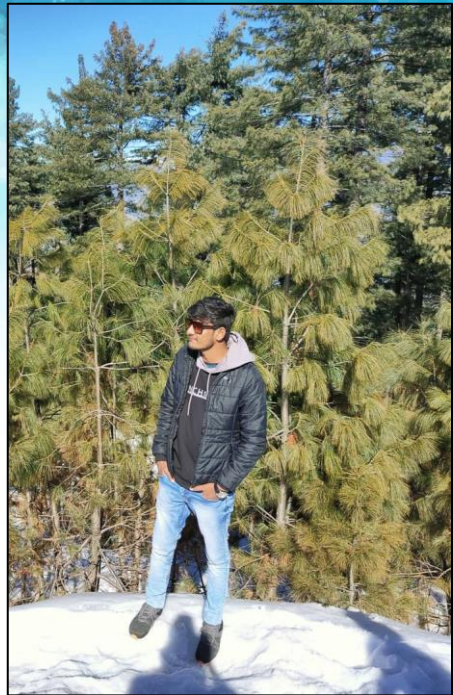
Hansraj Life in One Word:- Khatti-Meethi

Jhanvi Gupta

- First crush :-Ye na ho payega!☐ Jante hue bhi hkne kya hi ukhad liya☐
- Something you will miss the most :-I will miss my small gang and I will miss being part of NSS.
- Your most memorable moment:- My most memorable moment- There is so much to add here ☐ . I got such a amazing amazing bunch of friends, they made every moment, every laugh special.The Manali trip, NSS Utsav and Chemotsav preparations time, tops the list. Being in NSS, be it as a volunteer or a coordinator is a whole different kind of mood. It changed me as a person, and I will cherish this time forever. (The best thing that happened to me in college)♥☐♥☐
- Song that describes your life :- Abhi na jao chhod kr ki ye dil abhi bhara nhi.....
- Favourite hangout spot :-Arts Faculty
- Person who inspired you to become a better version of your self :- Ishika Di

Heeralal Jaipal

- First crush :- इना मीना डीका
- Something you will miss the most :- Friends
- Your most memorable moment:- College Fest
- Song that describes your life :- यारों जी भर के जी ले पल लगता है आज कल दौर अपना आएगा
- Favourite hangout spot :- LP
- Person who inspired you to become a better version of your self :- No One



□
□
Hansraj Life in One Word:-

Hansraj Life in One Word:- Barbaad



Yashir

- First crush :- Nil
- Something you will miss the most :-Pdhai
- Your most memorable moment:- Winner of 2019 Elections
- Song that describes your life :- Beet Jaaniya
- Favourite hangout spot :- Patel Chest Paranthe
- Person who inspired you to become a better version of your self :-Shivangi Kochhar



**Hansraj Life in One Word:-
Roller Coaster**

Abhishek

- First crush :-Not a single one ...
- Something you will miss the most :-My friends ,, chai pe charcha (usually after lab..)
- Your most memorable moment:-Enjoying fest with friends in DU colleges (miranda, srcc, etc.) , attending hindi diwas...One great moment was when ms. Shampa mam asked my friends(sachin, mahesh)the reason for being late and mahesh replied "bhoat dur se aate hai mukherjii nagar se" And mam too gave an epic reply "toh mukherjee nagar wapas jao "....
- Song that describes your life :- Woh din bhi kya din the..
- Favourite hangout spot :-Vishvidhyalay metro station (college ka àadha time metro me gya)
- Person who inspired you to become a better version of your self :-From RITHIK who remain cool in every situation

Abhay Thakur

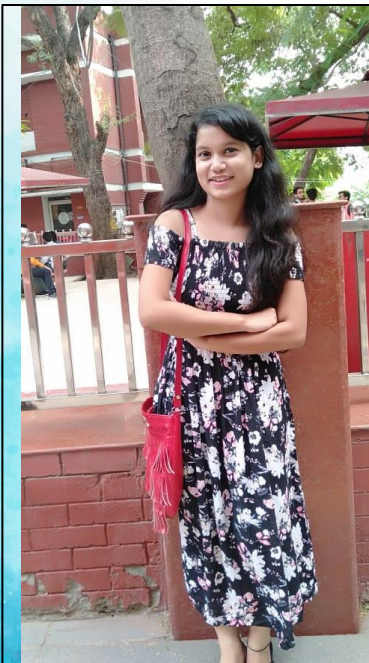
- First crush :-Hahahaahha
- Something you will miss the most :- My Group
- Your most memorable moment:-All the mass bunks
□
- Song that describes your life :- Pehla Nasha
- Favourite hangout spot :-LP
- Person who inspired you to become a better version of your self :- Specially abled Friends



Hansraj Life in One Word:- Amazing

Bhawna

- First crush :- Nothing
- Something you will miss the most :-College Best Friend
- Your most memorable moment:- Food Fest and College
- Song that describes your life :- Give me some sunshine
- Favourite hangout spot :- Sudama Tea Stall
- Person who inspired you to become a better version of your self :- Friends



Hansraj Life in One Word:- Fabulous

Vijender Meena

- First crush :-Math hons vaali☐
- Something you will miss the most :- College Friends
- Your most memorable moment:- College fest
- Song that describes your life :- Who din
- Favourite hangout spot :- College Canteen
- Person who inspired you to become a better version of your self :-Sumit Scientist



**Hansraj Life in One Word:-
Play with chemicals☐☐**

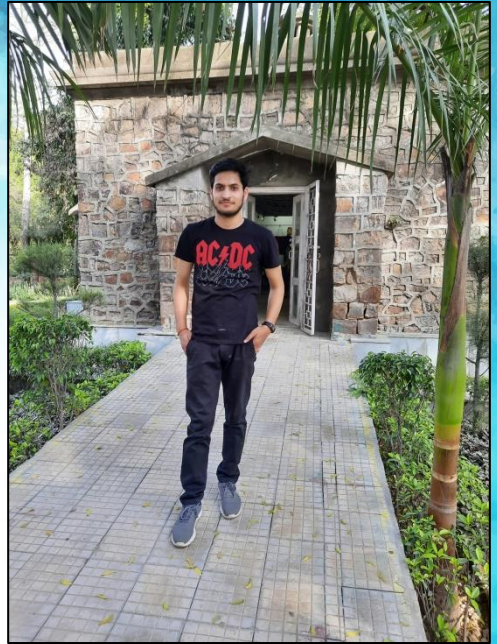


PRAGYA GAMBHIR

- First crush :-B-4
- Something you will miss the most :-Maggi and Coffee
- Your most memorable moment:-WORKING IN LAB ALONE :P
- Song that describes your life :- Who Din
- Favourite hangout spot :- Mother Diary
- Person who inspired you to become a better version of your self :- Jyoti Ma'am

Kamalkant Sharma

- First crush :-Bhul gaya me
- Something you will miss the most :-Walking with her.
- Your most memorable moment:-Shampa ma'am ki kuch classes.
- Song that describes your life :- Dekhte Dekhte
- Favourite hangout spot :- Room PG No.311
- Person who inspired you to become a better version of your self :-Can't decide bahut sare dost hain.



Hansraj Life in One Word:-Disturbing



Hansraj Life in One Word:-
It was uncertain yet meaningful

Sweta Singh Rajora

- First crush :-No one
- Something you will miss the most :-Leisure time during labs
- Your most memorable moment:-every moment is memorable
- Song that describes your life :- Love Myself
- Favourite hangout spot :- Any place becomes good wid friends
- Person who inspired you to become a better version of your self :-It is just me



**Hansraj Life in One Word:-
Special Wali Feeling**

Mahak Chhabra

- First crush :- Sadly no one
- Something you will miss the most :- Travelling for 2 hrs not to attend classes but to meet your buddies
- Your most memorable moment:-Not a moment but a day when I did a night stay (being a up down person) along with full day chilling with my friends
- Song that describes your life :- Yeh dosti hum nhi todenge
- Favourite hangout spot :- Sudama
- Person who inspired you to become a better version of your self :-My bestie without whom imagining my college life is impossible HIMANI .



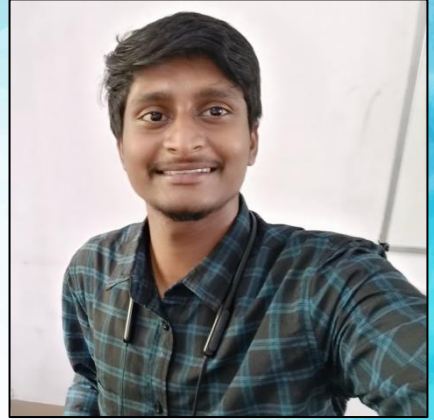
Hansraj Life in One Word:- Unforgettable

Prashansa

- First crush :-dukh dard kasht peeda only
- Something you will miss the most :-hanging out with friends, things will be very different after college and OBEs:)
- Your most memorable moment:-cannot think of a particular moment, but some of my best memories from college life are associated with- yulu rides, sneaking out in the lab-5 weighing room, and the topmost bliss that comes from finding that five rupee coin in the corner of the wallet, ensuring chalo aaj ki choco stick arranged
- Song that describes your life :- kya karoon?' from wake up sid
- Favourite hangout spot :-kamla nagar
- Person who inspired you to become a better version of your self :-iska jawab to mujhe bhi nahi pta

Abhijeet Kumar Mehta

- First crush :-Someone from my batch.
- Something you will miss the most :- Birthday celebration in LP and Moments with the girl I praise.Your most memorable moment:-Birthday celebration in LP and Moments with the girl I praise. Song that describes your life :- Boulevard of Broken Dreams by Green Day
- Favourite hangout spot :-Sudama Chai Stall.
- Person who inspired you :-I got inspired from each and every one, I had interacted in college. But most importantly Sumit and Pragma.



**Hansraj Life in One Word:-
Amicable**

Ch Tony

- First crush :-No badwords please.
- Something you will miss the most :- Hostel
- Your most memorable moment:- Pandemic
- Song that describes your life :- Writing the lyrics for the song
- Favourite hangout spot :- Sudama,24 7,Malka Ganj chowk, ghanta ghar,Hudson lane,lazy bear,hostel gate
- Person who inspired you to become a better version of your self :-No body



Hansraj Life in One Word:-Barbaad



**Hansraj Life in One Word:-
Independent**

Himani Bisht

- First crush :-
- Something you will miss the most :- The time in which we just bunk our labs/classes in order to sit together gossiping and making fun of each other (especially in 3rd year).
- Your most memorable moment:- Attending offline labs(lab 5).
- Song that describes your life :- Yaadon ke purane album mai chupa ke rakhein h humne wo din....
- Favourite hangout spot :- Just roaming around the north campus.
- Person who inspired you to become a better version of your self :- My very close/best friend (naam jaankr kya kroge) .

Manav chaudhary

- First crush :-
- Something you will miss the most :- OBE
- Your most memorable moment :- Dost itne aache mile h ki every moment become most memorableso cant tell one....
- Song that describes your life :- Agar tum saath ho....
- Favourite hangout spot :- Yaad dilvagr rulayoge ky
- Person who inspired you to become a better version of your self :- Me



Hansraj Life in One Word:- How can one describe college life if he stays 2 years of college life at home.....

Hansraj Life in One Word:-Barbaad..Paisa Barbaad



Ratnesh tiwari

- First crush :-
- Something you will miss the most :- Hostel
- Your most memorable moment :- Hostel Fresher
- Song that describes your life :- Mai nikla gaddi lekr
- Favourite hangout spot :- Sudama Chai, Hostel Gate ,LP
- Person who inspired you to become a better version of your self :- College Friends

Mahesh Pal

- First crush :-Not a single one
- Something you will miss the most :- That fear before attending physical chemistry lab
- Your most memorable moment:- Fest,Hindi sammelan at vigyan bhavan, trip with friends, fresher party
- Song that describes your life :- Not a song but a playlist
- Favourite hangout spot :- Bench beside KMC campus gate
- Person who inspired you to become a better version of your self :-Friends



**Hansraj Life in One Word:-
College life –One project :
millions of memories....
not have a single word**

Sakshi Arya

- First crush :- Don't know his name, department, year or anything important
- Something you will miss the most :- Chilling in LP
- Your most memorable moment:- Every Moment
- Song that describes your life :- "Koi kahe kehta rahe humko bhi kitna deewana"
- Favourite hangout spot :-Mother Dairy to hai ni ab to LP hi sahi
- Person who inspired you to become a better version of your self :-Senior

Hansraj Life in One Word:- MS Teams....



Epilogue

With the session 2021–22 being offline after what seemed like aeons, we did our utmost to compile all the heartwarming and convivial memories into this magazine. Goodbyes are always hard and this time, it is no different. This academic year's session saw the most awaited shift from online classes to offline classes. With colleges brimming with students and teachers, and Kamla Nagar turning into the hub for literally everything, Delhi seemed to have breathed life into it once again. We, the juniors, owe a debt of gratitude to the seniors, the multi-talented class of 2021, for constantly lending us a helping hand and establishing such a high bar for accomplishment. Seeing so many of you head societies and achieve exceptional academic achievements has always been a source of inspiration for us. We had a slew of emotions while looking at your photographs. Warm smiles and fulfilling embraces. Tearful eyes and glee in your hearts. Even though we only had a few months together, the time we spent with each other was wonderful, and you will all be eternally in our hearts. In this magazine, we tried our best to abstract your journey at Hansraj College's Department of Chemistry. We wish you the best of luck.

Goodbye!