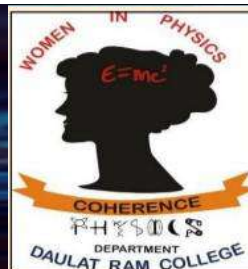




LUMINEUX

Annual Newsletter of Physics Department

Edition 4



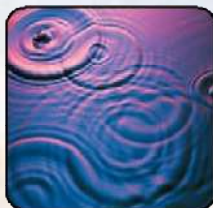
MYSTICAL OUTFIT

Oh! That's too large
How will I be able to manage this?
I like it's color and shiny shiny stars.
But why can I see them only,
When moon comes to meet me?
I heard it has eight beautiful things,
Out of which four beautiful rings.
Why these four wear rings?
Are they engaged?
Between, when I sleep,
My favourite blanket of black color
with little stars cover mehhhh....
But don't know why I could never
be able to hold it.
Sometimes stars of my blanket
starts running...
Where were they going?
Is their train about to leave??
What is this mysterious thing???
Is this UNIVERSE????
That my teacher told me.

: KASHISH TATU

HOW DID I FALL IN LOVE WITH PHYSICS?

PHYSICS always haunted me with all its horrifying numericals and lengthy derivations. But as I encountered its beauty in nature, I was spell bound.



I have often tried to throw stones in water and enjoyed the beautiful pattern of concentric rings waving out. The waves originated from two stones thrown in water creating a pattern of crests and troughs clarified the phenomenon of **INTERFERENCE** to me.

Walking past the trees on winter morning with soothing sunlight appearing among them is a view of **TYNDALL EFFECT**. I was surprised to know how the minute particles present in the atmosphere made the path of light visible to us.



DIFFRACTION has shaped the picture of clouds with silver lining in my mind. The bending of light around the particles of same order of magnitude as the wavelength of light described this scenic beauty to me.

Rainbow!!!! This beautiful relief of nature has even more beautiful phenomena of **DISPERSION** and **INTERNAL REFLECTION** involved. The splitting of sunlight into seven colors after passing through a raindrop connected me to the nature imbibing physics.



"Earlier, I used to think that I can study any subject but Physics, but after encountering the beauty of it, I decided that I would study only Physics."

:MEHAK GUPTA



NASA'S MARS MISSION

Rover Name: Perseverance

Launch: July 30, 2020, Cape Canaveral Air Force Station, Florida.

Landed: Feb 18, 2021 on Jezero Crater, Mars.

Objective: To seek signs of ancient life & collect rock and soil samples for possible return to Earth.

Mission Duration: At least one Mars year (about 687 Earth days).

TEACHERS' & EDITORS' NOTE

ACTIVITIES

OUR SHINING STARS

SARS-COV-2

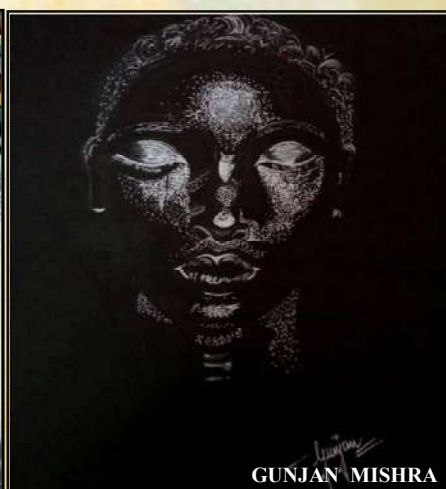
ARTISTA SCRIBE



GUNJAN MISHRA



SHIVANI VIJAYRAN



GUNJAN MISHRA

"Imagination is more important than knowledge."

-ALBERT EINSTEIN

SAY SALUT TO OUR TORCH BEARERS

"I never teach my pupils. I only attempt to provide the conditions in which they can learn." – Albert Einstein

DR. SAVITA ROY

(PRINCIPAL)



She is the one who took the initiative to start the Physics (H)

undergraduate course in Daulat Ram College in 2017.

She is persistently involved in upgrading the quality of education and developing the platform. We are very grateful for all her efforts and support.

DR. OMWATI RANA



Being one of the most lovable teachers, she always encourages

students for participating in sports and extra-curricular activities. She always entertains the doubts of students and makes the class interesting. She knows how to make best use of one's potential to nurture best of being.

DR. ONKAR MANGLA



His charming smile, witty questions and methods of teaching are

what makes him unique.

He is passionate for physics and motivates us to understand the depth of it. Coding & digital are his strengths. He always helps students in labs and never deters from any laborious work.

DR. NEETU AGRAWAL



She is excellent at awaking joy in creative expression & knowledge .

She is equipped with incredible understanding & excellent teaching skills. She pushes the students towards logical understanding. She always encourages the students to make the best out of them. She is a very hardworking person.

DR. NEERU SEHDEV



Being one of the most disciplined teachers, she is a perfectionist in every aspect of

her capabilities. She has a unique way of clearing concepts and focuses on practical analysis. She always gives ears to new ideas about activities and events. Also, she emphasizes on smart work and making life worth it.

DR. TARUN CHOUDHARI



Patience and passion are the words which describe him correctly. A bit of laughter

and imbibing concepts are the characteristics of his class. His casual and calm attitude makes students comfortable. He is always ready to discuss the upcoming technology and development. He is a very kind person.

Dr. SHEFALI JAIN



Her face with capturing smile makes one pulled towards her motivating

words. She always extends her hands to solve students' problems. She promotes small pleasures of life. She is an active enthusiast in events and workshops. Wholeheartedly, she helps out the students in programing.

Ms. JYOTI CHAUHAN



One of the youngest & most talented teacher, she relates easily

with the students. She emphasizes more on practical face of the subject. Her habit of referring interesting books makes the students appreciate depth of Physics and encourages them to find their life's goal & achieve them.

Dr. DISHA WADHAWAN



As a passionate and warm person with a zest of life, she believes in hard work and trying

everything. She encourages students to see beyond sight. She is knowledgeable to every discussion and wants the students to learn the wonders of life as well as science. She is caring & wants the students to discuss the best in themselves.

EDITORS' CORNER

Anushka Sharma



Being in the editorial board for LUMINEUX, the yearly newsletter for COHERENCE has been a great part of my college life. It was a process of working, learning, growing and creating. Without the team support of my fellow editors, it would not have been so smooth.

“Striving not to be successful, rather to achieve excellence is all what I learnt.”

I thank all the participants who helped making us this newsletter to be of value and to everyone for believing in me and giving me this opportunity to grow.

Vedika Dubey



“Reading is to the mind what exercise is to the body.”

Welcome to the 4th Edition of LUMINEX which evinced the mixture of student's creativity and achievements accompanied by the most unforgettable moments of COHERENCE, the Physics Department. The cherry on the top was my fellow Editors as the newsletter is the combined efforts of the editorial board.

If received an opportunity again I would accept it without stalling.

Mehak Gupta



“Reading is a process that shapes our thoughts to carve a magnificent being with the most positive persona.”

LUMINEUX manifests the annual journey of COHERENCE, the Physics Department and also portrays the artistry of the students. Being a part of the editorial board, I learnt many new things. For me, there was learning at each step. We all had a unique experience of working, communicating and implementing our thoughts during the pandemic. Hope this edition of the newsletter would enlighten to the best of our knowledge.

Note from President of COHERENCE



For me **Coherence** is not just an association rather it is an idea, an emotion, a way of thinking that brings great changes. It is a flower blooming as a result of hard work of our teachers, lab staff and all the creative and talented students.

Being the President, I learnt a lot of new things, improved a lot and became more decisive and responsible. Even though everything was conducted online we still gave it our best shot. I really hope we all got to hold the name of this department up high.

This journey was absolutely amazing and I would cherish all memories I made here all my life. Thank you everybody for giving me this precious gift.

Bhumija Chaudhary (President 2020-21)

DEPARTMENT and ASSOCIATION ACTIVITIES

TAGLINE COMPETITION

Coherence, the Physics Association organized an online activity 'Tagline Competition' on 20th May 2020.

Scientific terms related to physics were shared with the participants with the challenge to reframe the terms into creative and appealing taglines.

Thirty one students participated in this competition from which the top three positions were seized by

Ist position : Tanika Gupta (3rd year)
IInd position : Muskan Arora (2nd year)
IIIrd position : Vedika Dubey (1st year)

#Taglines by Winners



Webinar on “ART and SCIENCE of MENTORING”



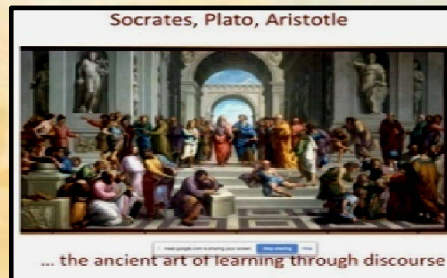
Webinar titled “Art and Science of Mentoring” was organized by Physics Department on June 1, 2020 under the aegis of Internal Quality Assurance Cell (IQAC).

The webinar session was lectured by **Dr. Pratibha Jolly** (FNASc, FInstP (UK), Academic Consultant NAAC, former Principal, Miranda House, and University of Delhi).

Around **165** faculty members from various colleges of Delhi University, Engineering Colleges and other Institutions attended the Webinar through online registrations beforehand.

The webinar was very well received and appreciated by the audience.

e-Certificates were emailed to all participants after the Webinar.



AAP ka APP COMPETITION

Coherence, the Physics Association organized another online activity 'AAP ka APP' on 13th June 2020.

The competition was a challenge in which the participants had to design their own app, make logos, add taglines and describe the benefits of their designed app over the already existing apps. The winners of this competition were –

➤ First prize (Cash Prize of Rs. 600/-):

Vanshika Sharma and Priyanka Chahal (1st year)
for designing '**SPIXCEE**'

BENEFIT: To connect the covid quarantine people with the world again.

➤ Second prize (Cash Prize of Rs. 400/-):

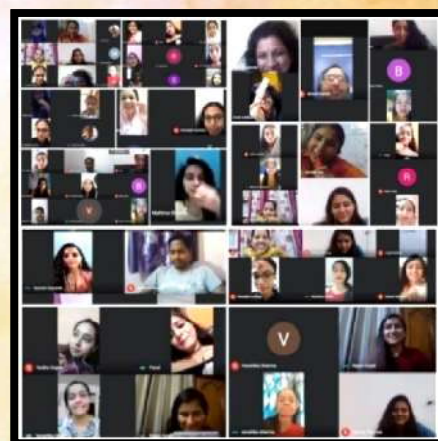
Anshu Tyagi and Anjali Kushwaha (3rd year)
for designing '**WHIP-SMARTY**'

BENEFIT: A questionnaire to check depression and have a healthy fitness competition.

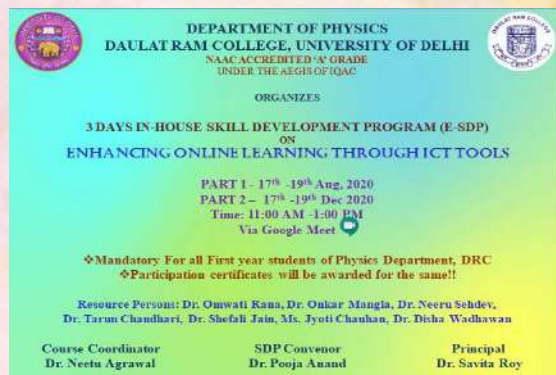


Coherence, the Physics Association organized its **first ever farewell** for the batch of 2017-20 on July 20, 2020.

Farewell party marks the celebration of a happy and successful journey of the final year students wherein every junior and our respected teachers shower best wishes for their future. The celebration was full of emotions, memories, performances and joy.



E – SKILL DEVELOPMENT PROGRAM



An In house Skill Development Program on “**Enhancing Online Learning through ICT Tools**”, was organized twice by our department on

- ❖ 17th -19th August, 2020 for IInd & IIIrd year students
- ❖ 17th -19th December, 2020 for Ist year students

The objective of this program was to enable and facilitate the transition of students from physical modalities of learning to the virtual workspace.

The students showed keen interest in learning new skills of enhancing their online learning power .



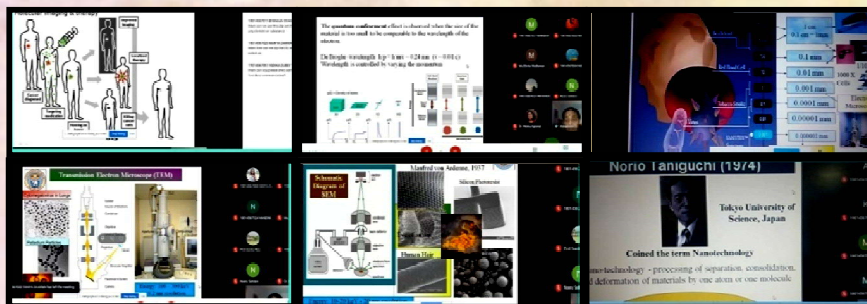
Inaugural Lecture on “WONDER THAT IS NANO: EMERGING TRENDS IN NANOTECHNOLOGY”

For academic session 2020-2021, Coherence, the Physics Association conducted its inaugural lecture on “Wonder that is Nano: Emerging trends in Nanotechnology” on 28th September 2020.

Our honorable speaker for the occasion was Prof. S. Annapoorni from the Department of Physics and Astrophysics, University of Delhi. The inaugural ceremony was graced with the presence of Dr. Savita Roy, Principal, Daulat Ram College.

The speaker introduced the audience with various interesting topics such as the role of Nanoscience in environment exploration, ultra-fast data storage, Quantum Confinement etc.

She also enlightened the students about the emerging opportunities and the success of Nanoscience and Nanotechnology in different fields. The students participated in the doubt clearing session with great zeal. In total, the seminar proved to be an informative and enriching session for the students.



The winners of the various competitions organized by the Physics association as well as the office bearers of the association for the session 2019-2020 were also felicitated and presented with the certificates of appreciations on this occasion.

“Time is nature’s way of keeping everything from happening at once.”

–JOHN ARCHIBALD WHEELER

INGENIOUS

Coherence, The Physics Association organized an online inter-college activity “INGENIOUS”, the scientific movie making and editing competition on September 29, 2020.

Participants had to choose a video clip from any movie and give the scientific explanation behind the clip.

A total of 9 entries were received from various colleges of Delhi University.

The winners of this competition were provided with e-certificates.

Ist position: Anirudh Sasi, Hindu College, Delhi University

IInd position: Aditi Chaudhary, Daulat Ram College, Delhi University

IIIrd position: Vibhor Khanna, Kirorimal College, Delhi University



CIENCIA: SCIENCE QUIZ

On November 25, 2020 Coherence- the Physics Association, organised an online science quiz “CIENCIA”.

Ciencia, the quiz competition was based on general science and the students from school, undergraduate and postgraduate levels were allowed to participate.

There were 20 Multiple Choice Questions in the quiz with a time limit of 20 minutes.

Out of a group of 50 participants, e-certificates were awarded to the top three winners.

Ist position: Ayesha Rahil Ahmed, 2nd year, B.A. English (H), SOL, Delhi University

IInd position: Anurag Gupta, 2nd year, B.A. Economic (H), Rajdhani College, Delhi University

IIIrd position: Yatharth Arora, B.Com Correspondence, Hansraj College, Delhi University



PEN IT DOWN COMPETITION

On November 25, 2020 Coherence- the Physics Association, organised yet another exciting inter college activity for students to showcase their imagination and creativity: “PEN IT DOWN”

This was a quest in which the participants had to create a science fiction story beginning with an already provided thrilling story line “wandering through the graveyard it felt like something was watching me...”

Around 50 exciting stories were penned down from throughout Delhi University.

E-certificates were provided to the most fascinating stories written.

Ist position: Shristi Jangwan, 3rd year, B.Sc. (H) Botany, Daulat Ram College, Delhi University

IInd position: Yashasvee Goel, 3rd year, B.Sc. (H). Physics, Daulat Ram College, Delhi University

IIIrd position: Mobani Biswas, 2nd year, B.Ed. S. S. Khanna Girl's Degree College.



"A NEW BEGINNING CALLS FOR CELEBRATION"

To celebrate the beginning of yet another batch of young ladies, Coherence, the Physics Association organized **FRESHERS' 2020** on 7th January, 2021.

Fresher's party is an amazing and vibrant event which signifies the amalgamation of new students into the college life as a family member of our department.

With the theme "Retro", our freshers' dressed in gorgeous outfits showcased their unique style and talents which were quite impressive.

The day was a crazy one full of performances, games and laughter. The title distribution ceremony was the main attraction.

It was a wonderful event that created a sense of love and unity among all the seniors and juniors.



MISS FRESHERS
Khushi Batra



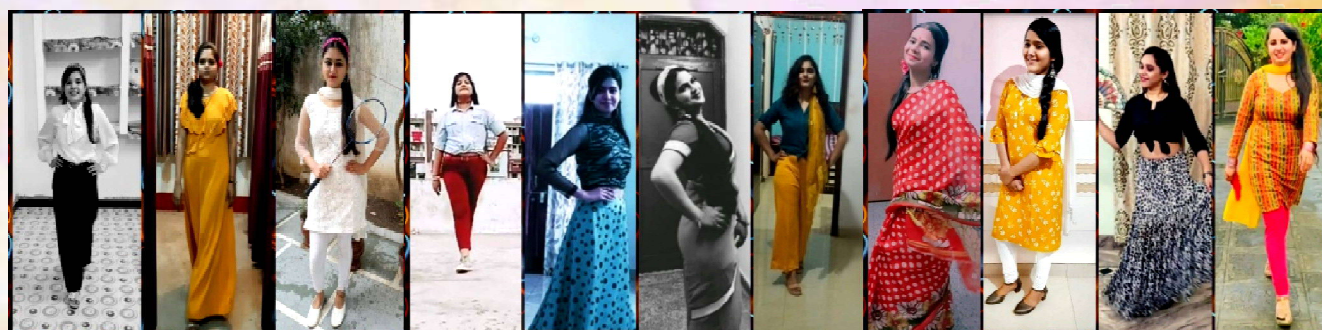
MISS DIVA
Aditi Sharma



MISS TALENTED
Gunjan Mishra



MISS WITTY
Ritika Hans



MEME MAKING COMPETITION

Coherence, The Physics Association organised "WHAT DO YOU MEME?" - The Meme Making Competition on 5th February 2021.

The participants were provided with 6 templates out of which they were supposed to use 5 templates for science related meme and submit it in duration of 2 days.

Out of all 6 entries received, the participants who designed the most creative and funny meme's were awarded with a certificate of appreciation.



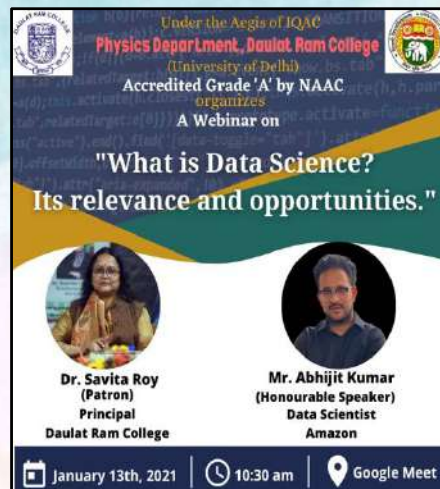
Webinar on “Data Science: It’s Relevance and Opportunities”

"Data is a precious thing and will last longer than the systems themselves."– Tim Berners-Lee

On February 17, 2021, Physics Department organised a webinar titled **“What is Data Science? Its relevance and opportunities”**.

The honorable speaker for the occasion was **Mr. Abhijit Kumar (Data Scientist at Amazon)**.

The session was a very interactive one in which our guest enlightened the students on the basics of data science and various scientific methods and algorithms used in it to extract knowledge and insights from many structured and unstructured data.



YOGMUDRA

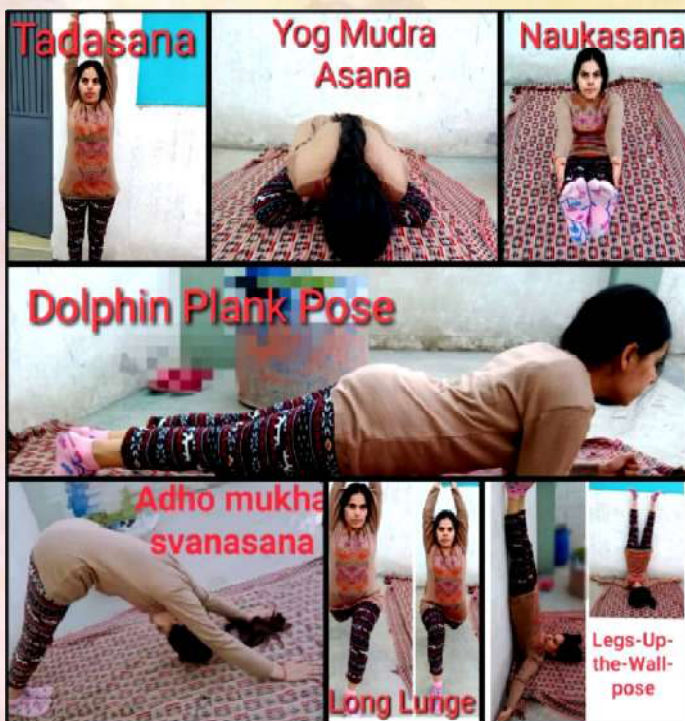
When it comes to unique ideas, Coherence is very rich with a variety of them.

Keeping in mind, **the idea of health and science** Coherence organized its next intra departmental competition, the **Online Yoga Posture Making Competition** on 8th March 2021.

The participants were provided with a set of scientific terms-

- | | | |
|------------|------------|------------|
| 1. DIOPTRE | 4. VIBGYOR | 7. PHYSICS |
| 2. GRAVITY | 5. RADIATE | |
| 3. INERTIA | 6. TYNDALL | |

The challenge was to perform yoga poses with names that began with each letter of the scientific term they chose..



POSES by WINNERS

FIRST POSITION

Avantika Maan

(2nd year)

Cash Prize: Rs.300/-

Term: TYNDALL

Tadasana
Yog Mudra Asana
Naukasana
Dolphin Plank Pose
Adho Mukha Svanasana
Long Lunge
Legs-up-the-wall-pose

SECOND POSITION

Anushka Sharma

(3rd year)

Cash Prize: Rs.200/-

Term: PHYSICS

Padmasana
Halasana
Yatch Face Pose
Salabhasana
Intense Side Stretch Pose
Cat Cow Pose
Sarvangasana

"Falsity in intellectual action is intellectual immorality." - THOMAS CHROWDER CHAMBERLIN

SHAHEED DIWAS

To honour and value the supreme sacrifices made by our national icons: Shri Bhagat Singh, Shri Sukhdev Thapar and Shri Shivaram Rajguru our country has been observing **23rd March as Shaheed Diwas**.

To commemorate 90 years of martyrdom of our national icons, Coherence organised various online competitions on 14th March 2021 wherein the participants were to remain creative and original in their ideas, thoughts, presentations and narration.

- Essay writing competition
- Slogan writing competition
- Poetry writing
- Song writing competition

Best Entry Winners

1st position : Alka Gaur (2nd year)

IInd position : Bhumija Chaudhary (3rd year)

दिल - ए - आजादी

दिल तो मेरा भी करता है झूमनाचू गाऊँ मैं, आजादी की स्वर्ण जयंती वाले गीत सुनाऊँ मैं !
लेकिन सरगम वाला वातावरण कहाँ से लाऊँ मैं, मेघ मलारो वाला अंतवारण कहाँ से लाऊँ मैं
मैं दामन मैं दर्द तुम्हारे अपने लेकर बैठा हूँ, आजादी के टूटे-फूटे सपने लेकर बैठा हूँ
घाव जिन्होंने भारत माता को गहरे दे रखे हैं, उन लोगों को जैड सुरक्षा के पहरे दे रखे हैं
आजादी लाने वालों का तिरस्कार तड़पाता है, इंकलाब की बलि वेदी भी जिसमें गौरव पाती है
आजादी में उस शेखर को भी गाली दी जाती है, जिस से बढ़कर और शर्म की बात नहीं हो सकती थी
आजादी के परवानों पर घात नहीं हो सकती थी, कोई बलिदानी शेखर को आतंकी कह जाता है
पत्थर पर से नाम हटाकर कुर्सी पर रह जाता है, राजभवन के अंदर अरे-गैरे तन कर बैठे हैं
बुद्धिजीवी गांधी जी के बंदर बनकर बैठे हैं, इसलिए मैं अभिनंदन के गीत नहीं गा सकता हूँ
मैं पीड़ा की चीखो हूँ मैं संगीत नहीं ला सकता हूँ, गाली की भी कोई सीमा है मर्यादा है
ये धरना तो देशद्रोह की परिभाषा से भी ज्यादा है, मेरी आंखों में पानी है सीने में चिंगारी है
राजनीति ने कुर्बानी के दिल पर ठोकर मारी है, वोटों के लालच में शायद कोई कहीं नहीं बोला
लेकिन कोई ये ना समझे कोई खून नहीं खोला, सुनकर बलिदानी बेटों का धीरज डोल गया होगा
मंगल पांडे फिर शोणित की भाषा बोल गया होगा, भारत भूमि पर मरने वाला डोला भी रोया होगा
इंकलाब का रंग बसंती चोला भी रोया होगा, चुप चुप के रोया होगा संगम का पानी
आंसू आंसू रोए होगी धरती की धानी, एक समय तक रोई होगी भारत की कुर्बानी
क्या यही सुनने को फांसी झूले सेनानी, जहां मरे आजाद पार्क के पत्ते खड़क गए होंगे
कहीं स्वर्ग में शेखर की बाजू खड़क गए होंगे, जिसका भारत की जनता से रिश्ता आज लहू का है
जिसके पिस्टल की गोली ने इंकलाब को भाषा दी, जिसके जीवन के दर्शन ने हिम्मत को परिभाषा दी
मैं सूरज का बेटा तम के गीत नहीं गा सकता हूँ, मैं पीड़ा की चीजों में संगीत नहीं ला सकता हूँ
स्वर्ण जयंती वाला जो मैं मंदिर खड़ा हुआ होगा, शेखर उसकी बुनियादों के नीचे खड़ा हुआ होगा
आजादी के कारण जो गोरो से कभी लड़े होंगे, शेखर की पिस्तौल किसी तीरथ से बहुत बड़ी है,
जो सेना पर गोली खाने को आगे बढ़ जाते हैं
भारत माता की जय कहकर फांसी पर चढ़ जाते हैं, जिन बेटों ने धरती माता पर कुर्बानी दे डाली
आजादी के हवन कुंड में अग्नि चेतन कर डाली, वे देवों की लोकसभा के अंग बने बैठे हैं
वे सतरंगी इंद्रधनुष के रंग बने बैठे होंगे, दूर तक जितने तारे उनके नाम दिखाई देते हैं
उनके साथ मैं चारो धाम दिखाई देते हैं, जिनके कारण ये भारत आजाद दिखाई देता है
अमर तिरंगा उन बेटों की याद दिखाई देता है, उनका नाम जुबा पर लो तो पलको को झपका लेना
उनकी यादों के पत्थर पर दो आंसू टपका लेना, जो धरती पर दस्तक देकर चले गए
दाग गुलामी वाले धोकर चले गए, मैं उनकी पूजा की खातिर जीवन भर गा सकता हूँ
मैं पीड़ा की चीखो हूँ मैं संगीत नहीं ला सकता हूँ, मैं पीड़ा की चीखो हूँ मैं संगीत नहीं ला सकता हूँ

:ALKA GAUR

COMIC SCIENCE

Coherence, the Physics Association organized an inter-college online activity 'COMIC SCIENCE' on 16th March 2021.

The competition was a challenge in which the participants had to submit a self made stand-up comedy video and showcase their fun side with humorous jokes on Science. The winners of this competition were

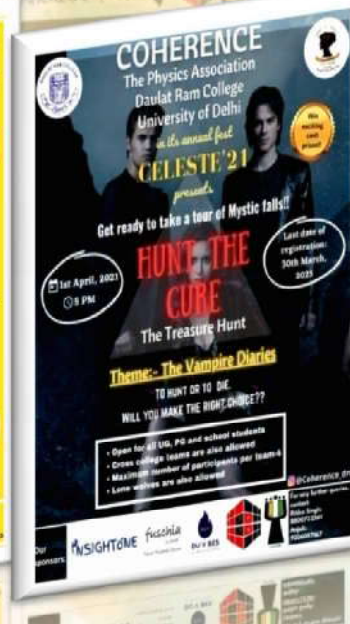
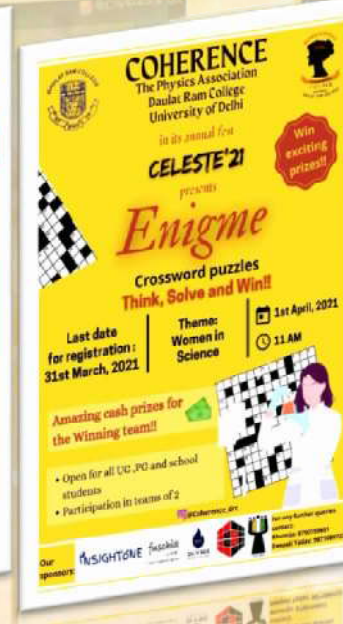
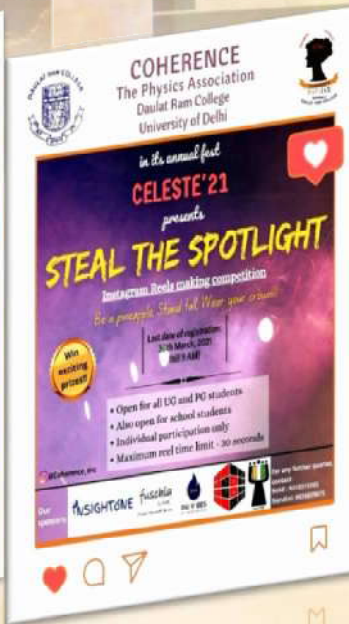
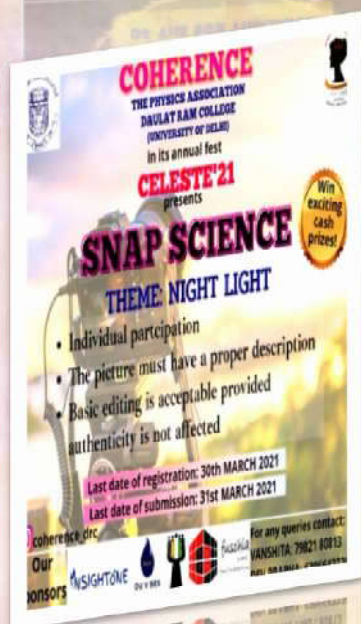
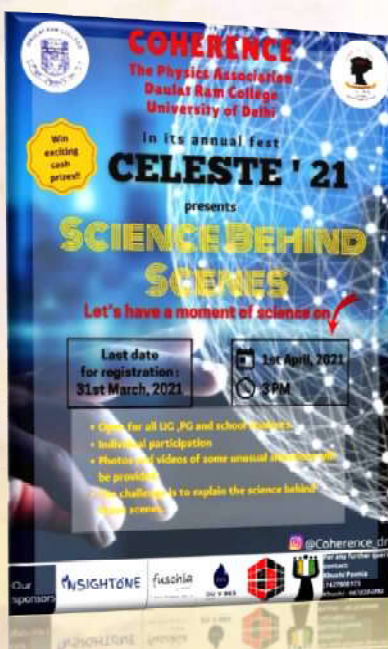
➤ First prize (Cash Prize of Rs. 300/-):

Anushka Sharma (3rd year, Daulat Ram College)

➤ Second prize : Sugandhi (3rd year, Gargi College)



ANNUAL DEPARTMENTAL FEST: CELESTE 2021



"The good thing about science is that it's true whether or not you believe in it." — NEIL DEGRASSE TYSON

NOBEL PRIZE 2020 : MYSTERIES of BLACK HOLE

: compiled by JIYA

Roger Penrose (UK) received half of this year's prize for the discovery that a black hole formation is a robust prediction of the general theory of relativity.

Reinhard Genzel (Germany) and **Andrea Ghez (USA)** received the second half of the prize for the discovery of a supermassive black hole at the centre of the Milky Way Galaxy, now known to be the Sagittarius A*.



Roger Penrose

Reinhard Genzel

Andrea Ghez

Penrose laid the theoretical foundations for the existence of black holes, Ghez and Genzel's teams produced powerful experimental evidence that such a void sits at our Galaxy's heart.'

OUR SHINING STARS

(BATCH 2017-20)



PARUL
M.Sc.
(DELHI
UNIVERSITY)



KIRTI YADAV
M.Sc.
(DELHI
UNIVERSITY)



NEETU SINGH
M.Sc.
(DELHI
UNIVERSITY)



NAMITA JOSHI
M.Sc.
(DELHI
UNIVERSITY)



ANJALI KUSHWAHA
M.Sc.
(DELHI UNIVERSITY)



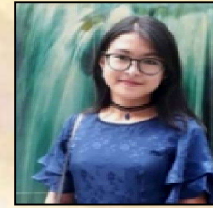
HIMANJALI VARSHNEY
M.Sc.
(DELHI UNIVERSITY)



SRISHTI
M.Sc.
(DELHI
UNIVERSITY)



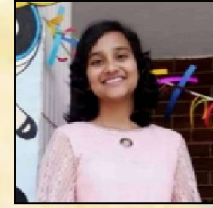
PRACHI
M.Sc.
(DELHI
UNIVERSITY)



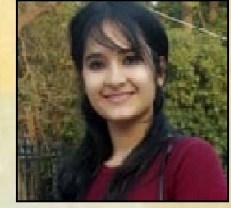
RAJKUMARI BABAYSANA
M.Sc.
(IIT DELHI)



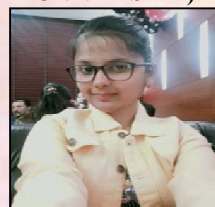
KRITIKA
M.Sc.
(IIT DELHI)



ANSHU TYAGI
M.Sc.
(IIT MANDI)



RIYA KHANEJA
M.Sc.
(IIT BOMBAY)



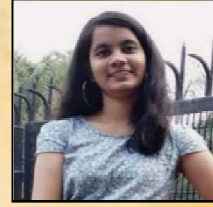
TARUSHI AGARWAL
M.Sc.
(NIT
JAMSHEDPUR)



AISHA IFTIKHAR
M.Sc.
(JAWAHARLAL
NEHRU
UNIVERSITY)



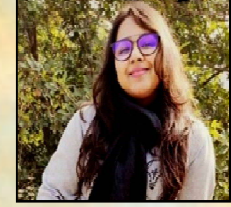
NISHA KUMARI
M.Sc.
(DELHI
TECHNICAL
UNIVERSITY)



KAJAL SHARMA
M.Sc.
(DELHI
TECHNICAL
UNIVERSITY)



TANNU GARG
M.Sc.
(AMITY
UNIVERSITY)

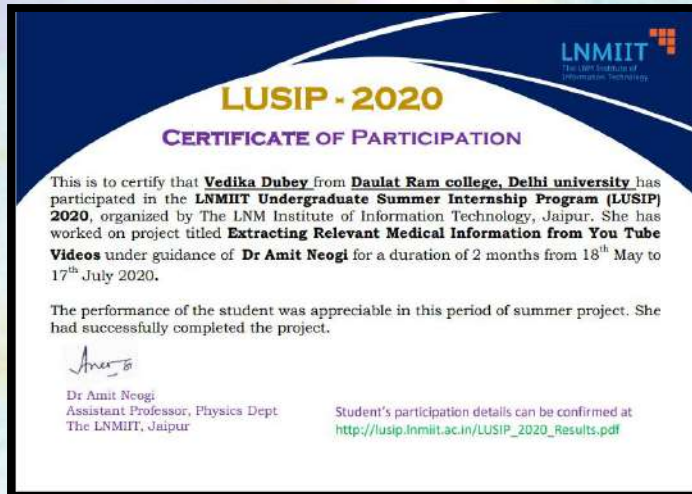


TANIKA GUPTA
M.Sc.
(AMITY
UNIVERSITY)

"You cannot teach a man anything; you can only help him discover it in himself."

- GALILEO

Our Budding Interns



While getting bored with binge-watching and snacking all day long I planned to change my mundane routine 'and so came across this **Summer Internship at The LNM Institute of Information Technology, Jaipur** where under the guidance of Dr. Amit Neogi I worked on the project, **“Extracting Relevant Medical Information from Youtube Videos”** on the topic : **Natural Cure of Alzheimer and Dementia.**

The conclusion of my report was : APOE-4 allele gene if received from 1 parent risk is 3x and if from both then 10-15x but even in presence of the APOE-4 allele gene if one consumes a Mediterranean diet, regular exercise, deep sleep, and a high level of cognitive reserve i.e. people who are in continuous learning phase can counter the tipping of the scale.

:VEDIKA DUBEY

During the lockdown period, I joined an online social media marketing internship of one month at Aasha foundation. I learned something new in online internship like digital poster making (Save Water Save Life, Save Girl Child, Be Vocal about Local, Save Tree and Environment ... etc), Videos on various interesting topics. And I learned how with the help of social media we can help any needy. In the internship, I also wrote content on very interesting topics. So thank you Aasha foundation for a great learning and for giving a wonderful experience!!!

:NISHA CHOUDHARY



While in quarantine and boredom, I came across this internship from Way Up. I saw this as an amazing opportunity to gain knowledge about Social media marketing and so I registered in it with full enthusiasm. Through this internship I got to know how different platforms have different audiences and hence different strategies for marketing respectively. We were given daily tasks that focused on interaction with people, understanding their needs and problems and then accordingly presenting them our product/idea. The 14 days of internship was a great learning experience.

:PRIYANKA CHAHAL



SARS – COV - 2

HOW ARE SCIENTISTS AIDED BY PHYSICS DURING THIS COVID PERIOD

It has been a year now since the world got struck by the deadly virus “SARS-CoV-2” that emerged from Wuhan, China, and later spread its tentacles all over the world sparing none. It is well known how our medical community made an unprecedented leap in developing vaccines and test protocols but very few are aware of the contribution of physicists in fighting against this unwelcome guest. Some contributions are listed below:

(1) Considering the aerodynamic properties of the aerosol particles a 3 – 6 feet social distancing guideline was issued.

- A sneeze can generate thousands of droplets with velocities above 20 m/s.
- Coughing generates 10–100 times fewer droplets than sneezing with velocities of ~10 m/s.
- Breathing and talking generate jet velocities less than 5 m/s.

(2) Physics-guided technologies have been an extensive help in detecting corona virus in patients.

- X-ray crystallography helped in generating detailed 3 D structures of the corona-virus.
- CT imaging technology has become the "first line of defense" in diagnosing suspected infections, given the shortage of testing kits.
- A global team of physicists, engineers and medics designed a low-cost and simple mechanical ventilator using off-shelf components when there was a shortage of ventilators.

:compiled by SRISTI S. DAS

I EXPERIENCED A PANDEMIC

Ready to go to College, buckling my shoes .

There broke a BREAKING NEWS !
Colleges are shut , it's the spread of
CORONA!

Stay at home . SLEEP , EAT and
WATCH BARCELONA.

Hurrah! NO EXAMS in rooms full of
windows with big glasses.

But wait, there comes the ONLINE
CLASSES!

I want to explore , experiment with
PHYSICS , my love, my VALENTINE ...
sooner or later , I had to realize "IT'S
THE TIME FOR QUARANTINE".

All the trials with Dalgona Coffee and
Cake .

I was happy , I could be with my family
and do nothing but Bake.

World was suffering with PAIN and
SORROW.

With the hope that things be better
TOMORROW!

I wish Vaccine may cure the world soon
But COVID taught us that
"CONTENTMENT IS A BOON".

: ANUSHKA SHARMA



ARTISTA SCRIBE

A PERFECT ME!!

I know sometimes I am rude
But that's natural dude.
Keeping my secret all by my side
Cause no one is here to stand
beside.
Speak all the words inside my
head
Coz i don't makeover my words
before spelt.
Things u know are the thing
which I let u know.
So please STOP making your own
views on a PERFECT ME which
You even don't know.
Making my own world with my
own expectations so I will not let
you interfere in my Matter.
STOP looking where I will stand
in future as I am on the way to
have more.
I love my SCARS more than you
love your beauty As I know Scars
are the symbol ..how
enthusiastically u fought the
WAR!!!

: AANCHAL SHARMA



DISHA



GUNJAN MISHRA

MYSOGYNY

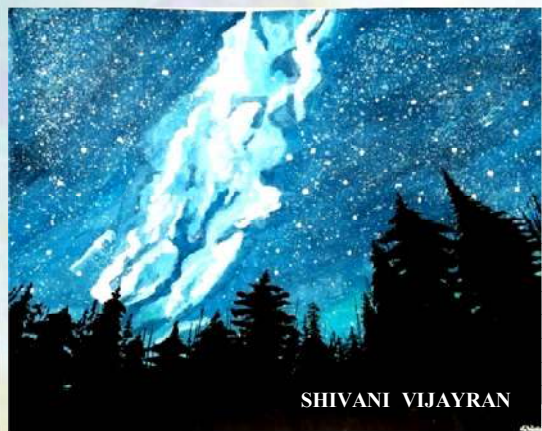
The alone she, The unable she
The girl she, The curse she
The wife she, The compelled she
The mother she, The machine she
She , who bothers for all
And gain nothing at all!
The nourishing she, The caring
she
The softer she, The unnerve she
She, the weaker sexuality
Just hoping for equality!
The amending she, The prudent
she
The self- questioning she, The
replying she
The adamant she, The
empowering she
She, the real sovereign of
changing era
as the sole she, The able SHE!

: ISHA SHRIVASTAVA

A WARPED SINGULARITY

Wandering through the graveyard it felt like something was watching me, I turned around to have a look but it was all quiet. It was midnight and I was going back to the observatory located right next to the graveyard. I am Mike, an assistant in the lab and working night shifts. I use my breaks to take a walk and look up at the mesmerizing Scandinavian sky. I was back at the lab and was randomly sitting in my chair when Professor Lim startled me. He is never here at this hour so it must be something urgent. I saw him packing up his stuff and clearing out his desk. "What are you doing?" I asked "I am leaving here. It's not safe anymore. Take care of yourself and trust no one." He replied. What? Seriously, what? He handed me a flash drive and said, "You will understand. You are a good chap, Mike." And he headed out. It took me a moment to digest all this. It was around 10 in the morning when I got back home and sat down with tea to think about all this. I took out the flash drive but the port was quite old so I will need a converter to access it. Professor Lim was highly respected and experienced in the world of science. What could be in this drive that made him do this? And on top of all that why me? There was a whole lot of question to address and I needed to clear my mind to be able to solve this. I Grabbed my coat and went out to get coffee. I came back getting all the essentials and fired up my home computer while running errands. As soon as everything was settled, I plugged in the flash drive. What came out on the screen was indecipherable. There were like a zillion numbers presenting themselves. Non-stop. It didn't make any sense. A few days passed by. Initially, I tried. Then I let it be. It was after a month maybe when something happened which made me remember the zillion numbers. I was on my way to the midnight break when I heard voices from the old cabin of the professor. "...is there any way we can get the files back?" "...what was so important to you? Why do you care so much?" "What I am about to tell you is classified so be careful. We both were analyzing the data from different telescopes exploring the universe. One day Lim got something which could have revolutionized everything and we could get a noble prize." "What was it?" "I should have caught the clues. He was acting weird and knowing him all these years I know he must have found the last piece. Man, why?" I recognized one voice - Professor Archer. And it hit me, they were working on something together. I need to know more. As soon as I started listening again, the other person came to check if anyone was there and that was my cue to get out of here. I walked through the graveyard thinking about everything. What could this thing be? I headed home to look it up again. Maybe it was a code or wait – telescope data! I plugged the data into the software. The software couldn't handle the load. I tried again and again. After an hour I got a hit! Oh my god! This surely was a noble! This was extraordinary. Here, in front of my eyes was the first-ever proof of what could be beyond our universe. A space-time passage, very well hidden. I converted it into a text file and it showed a message," I hope you understand the depth of this discovery Mike, Good luck!" I sat there, staring at my screen and wondering what will come next.

:YASHASVEE GOEL



SHIVANI VIJAYRAN



AASHEE SHARMA



KHUSHI CHOUDHARY



GUNJAN MISHRA



GUNJAN MISHRA



GUNJAN MISHRA



SEJAL



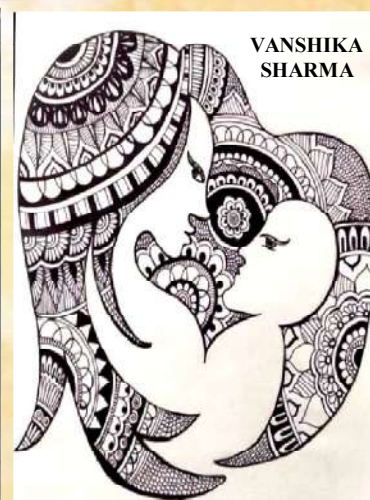
GUNJAN MISHRA



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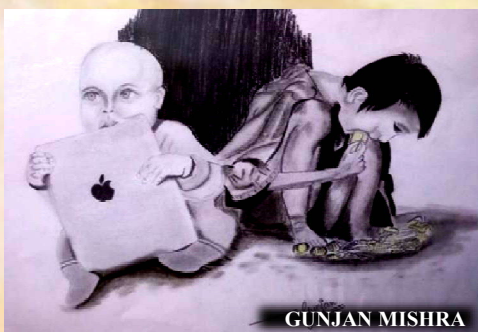
SEJAL



VANSHIKA SHARMA



KANIKA SINGH



GUNJAN MISHRA



SHIVANI VIJAYRAN