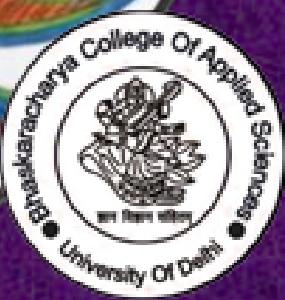


RESONANCE

2020



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Disclaimer:

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Principal's Desk



"The Power of we the people of India, has been seen in the country during lockdown".....

Hon'ble Prime Minister of India, Shri Narendra Modi

It is always a pleasure to write to my students, to share with them my thoughts, my dreams and vision for our college. However, this time, when the whole world is struggling in so many ways because of Covid-19 situation, the message of hope, positivity and oneness is paramount. Two points have become clear, first the nature is supreme, and second health is most important. It is important to take care of your physical and mental health. Hygiene and immunity are turning to be the most significant parameters. For this, basics such as washing your hands, eating balanced food, remaining hydrated, meditation, rest, exercise etc. are being emphasised upon. Our students are dynamic, enthusiastic and socially responsible. I am sure all are following precautions and creating awareness around. Do create happy and stress-free environment because it helps in increasing immunity and give strength to us. What could be the better way to be happy than to express yourself by following your hobbies and to share them with others to spread joy and positivizes.

For this, our college magazine *Resonance* gives an excellent platform to all of us to reflect deep expression of feelings and thoughts which could be very well showcased in the form of poems, articles, artworks, photographs etc. The magazine also showcases a plethora of activities organized by departmental societies, cells, committees and clubs of the college. This edition of *Resonance* is special because it is being published in the time when humankind is going through one of its most difficult periods. I hope this amalgamation of literary and artworks give moment of joy, message of happiness and feeling of togetherness to all.

**Dr. Balaram Pani
Principal**

Editorial Note

*“A developed India by 2020, or even earlier, is not a dream. It need not be a mere **vision** in the minds of many Indians. It is a mission we can all take up – and succeed.”.....*

Dr. A. P. J Abdul Kalam

2020 is year of testing our capabilities, especially when we are struggling with CORONA pandemic, to fulfill our dream of being a developed country. Under lockdown period, it is also the time we should judge as what went wrong in path and rebuild ideas to start new journey. Education could never get ignore at this juncture, as it is the mission for nation building. Young minds are sources of innovation that leads to new technologies with social harmony. Institutions have the responsibility to ignite the young minds in right direction, to dream for success and strive for success.

At Bhaskaracharya College of Applied Sciences, we the students and staff strive together for holistic development of society through overall progress of our students, in all fields whether academic and co-curricular. Every year we bring out our college magazine Resonance, to share our efforts and achievements together with our voice in the form of articles and reports. This magazine aims to get opinion from students and staff, on current scientific and social issues. Resonance as the name suggest is meant for getting peaked output through different resonating frequencies (voices).

This present form, Resonance 2020 is achieved by creative and innovative minds of young students and experience from dedicated teachers. This includes inspiring poems and articles by students and teachers along with articles. Resonance 2020, is the outcome of sincere efforts put by editorial board which include students and teachers. We sincere thanks to all teachers and students for their contributions as they gave by submitting their original creations to Resonance. This also include art work/photos by some of our best artists. Their contributions as included, speaks the quality itself that too finalization work done under National lockdown period. This magazine is the perfect example of our efforts to be active even when Universities and colleges are lockdown.

Sincere thanks to Principal Sir, Dr. Balaram Pani whose guidance and directions in making this magazine helped the editorial team.



Dr. Amit Kumar

Chandrayaan 2: Indian Ambition for Universal Aspiration

Earth's nearest cosmic body is Moon which always tempted human for its attempts to flow into deep space. Reaching moon is always regarded as primer technology for future space missions. After successful end of mission Chandrayaan 1, Indian space agency launched Chandrayaan 2 in July 22, 2019.

Main components of this missions are:

1. *Geosynchronous Satellite Launch Vehicle Mark III (GSLV Mk-III)*: It was India's most powerful launcher which is capable of launching 4-ton class of satellites to Geosynchronous Transfer Orbit.
2. *Orbiter* with weight 2379 kg and electric power generation capability 1000W: It is capable of communicating with Indian Deep Space Network (IDSN) at Byalalu. Also have the ability to communicate with Vikram Lander. Lander named Vikram after Dr. Vikram A Sarabhai, father of Indian space programme. With the weight 1471 kg and power generation capability for 650W, it was designed to work for one lunar day i.e. 14 earth days.
3. *Rover named Pragyan meaning wisdom*: It was 6-wheeled robotic vehicle with the weight 27Kg and electric power generation capability 50W.

Chandrayaan-2 mission is complex mission which aims to explore South Pole of moon. The aim is to study topography, seismography, mineral identification and distribution, surface chemical composition, thermos-physical characteristics of top soil. After translunar insertion on August 14, on August 20, 2019 Chandrayaan 2 was successfully placed in lunar orbit. After orbiting 100km, on September 02, 2019, Vikram Lander was separated from the Orbiter in preparation for landing. Two de-orbit maneuvers were performed on Vikram Lander to change its orbit and circle the moon in 100 km X 35 km orbit. On September 7, 2019 descent of Lander Vikram was as planned and normal performance was observed up to an altitude of 2.1 km. Subsequently communication from lander to ground station was lost. On September 10, 2019 Vikram Lander was located by Orbiter but could not communicate. On September 19, 2019 all payload of orbiter were powered and initial trial were successful.

Most ambitious objective of Chandrayaan-2, however was soft-landing of Vikram (the lander) and exploration via Pragyan (the rover). That component is not achieved. This task was not easy as the landing site was unknown and un-surveyed. A large part of moon is covered with thick layer of dust and it is not easy to figure out how deep this dust is. This is even harder on the far side of moon which ISRO chose for lander to land. Consider moon as a ball that rotates around Earth once every 27.3 days and also this ball rotates exactly the same period 27 days. Due to this tidal lock, Earth-bound observer always observes just 59 per cent of moon. ISRO deliberately took this as landing site with the plan that Vikram Lander-Pragyan Rover combination could survey local rocks and study chemical composition and mainly search for water. The site was pre-decided as during mission Chandrayaan-1, Moon Impact Probe (MIP) was crash landed on lunar surface on November 14, 2008 near crater named AShackleton at the South Pole. MIP was free fall, from Chandrayaan-1 for about thirty minutes and during this fall it kept sending data to Earth through mother satellite. The altimeter kept sending data which was to be used in Chandrayaan-2's lander-rover mission. The location of impact is named Jawahar point. Chandrayaan-1 data was re-analyzed and reported in August 2018 that, there is almost certainty of ice water on the surface of moon, hiding in cold and dark places near north and south poles.

Only three countries, Russia, US and China are able to achieve soft landing on moon surface. Initially lander for chandrayaan-2 was to be provided by Russia's space agency Roscosmos, but in 2012 this deal went off and ISRO decided to go solo. The soft-landing required lander to loose speed gradually as it came closer to moon surface. Reports says that last recorded speed of lander was 50 meters/sec at 2.1 km above surface. The planned speed reduction was about 2 meter/second during final touchdown. This suggest that the first phase of rough braking was successful to reduce speed from 1680 meter/second but during next phase of fine braking communication broke-down. This indicates that this phase could not complete as scheduled and the lander crashed. Chandrayaan-2 travelled the planned trajectory by a distance of 3,83,998 km out of 3,84,000 km between Earth and Moon, only missed by 0.0006%.

But all is not bad, in fact due to precise launch and mission management Orbiter life is enhanced to almost 7 year instead of planned one year. Some of the initial finding done by payloads of orbiter, as follows:

Chandrayaan-2 Large Area Soft x-ray Spectrometer (CLASS) is the largest collecting area spectrometer flown to Moon and expected to map the abundances elements on lunar surface. CLASS in the first few days of observation have detected charged particles and its intensity variations while passing through geo-tail.

The Orbiter's high-resolution camera (OHRC) took pictures from the height of 100 km and first it was reported on September 5, 2019. It covered a part of Boguslawsky E Crater and surroundings on southern polar region of moon which has 14 km diameter and 3 km depth. It provided the sharpest image ever from lunar orbiter platform.

On October 17, 2019 chandrayaan-2 begins spectroscopic studies on lunar surface through payload IIRS-Imaging Infrared Spectrometer. The main objective of this instrument is to understand origin and evolution of moon in geologic context by mapping the lunar surface mineral and volatile composition by examining the reflected solar spectrum. The first IIRS image covered far side of lunar northern hemisphere featuring few prominent craters (Sommerfield, Stebbins and Kirkwood).

There are innumerable impact crater resulted from bombardment by meteorites, asteroids and comets on lunar surface. These craters are approximately circular depressions ranging from small, simple, bowl-shaped depressions to large, complex, multi ringed impact basins. Initial imaging and observations by Chandrayaan-2 Dual-Frequency Synthetic Aperture Radar (DF-SAR) helped to study these craters.

ISRO has drawn a long term plan named Space Vision 2025. This includes chandrayaan-3, X-ray polarimetry satellite (XPOSAT), Aditya-L1, Gaganyaan, Venus orbiter, DISHA aeronomy mission and Lunar polar Exploration. ISRO also signed MoUs with 55 countries and five multilateral bodies to pursue corporation in space science and research. This will share cost, time and risk.

Pattern Recognition - Enabling Machines to Sense & Take Required Actions

Pattern recognition is a technology which enables a machine to recognise variation in patterns like voice pattern, colours, fingerprints and the shapes and sizes of different objects. It is a branch of machine learning which provides systems the ability to automatically learn and improve from experience without being explicitly programmed. Pattern recognition is used to give human-like recognition capability to machines. Humans have various sense organs with the aid of which one can identify the difference between the voices of two different people or identify various colours from each other. Such a machine is then employed in various fields like image processing, data security, computer vision, biometric identification, etc.

The process of pattern recognition is a five step process : sensing, segmentation, feature extraction, classification and post processing. A simple example of a pattern recognition system is a fish processing industry which produces packaged fish cans. The raw material for this factory comes from the catch of local fishermen which usually has a mixture of different types of fishes. Separating the fishes manually is a cumbersome job but it can be made easy by employing a system which separates the fishes on the basis of physical features like number of fins, dimensions, etc. The process involves taking visual input through the use of sensors and removing noise if any (in this case making the image of a sharp resolution). After the pre processing, useful features are selected based on which separation can be done easily. These are called feature vectors. An algorithm is developed using the feature vectors which makes the whole process automatic.

Apart from its usage as a separation tool, pattern recognition systems are utilised in developing security systems and biometric systems. It is used in speech recognition systems wherein larger units like words are treated as a pattern. Pattern recognition is used to extract meaningful features from given image/video samples and is used in computer vision for various applications like biological and biomedical imaging. Advantages of pattern recognition systems are that it solves classification problems, solves the problem of fake biometric detection, used in bioinformatics for DNA sequencing, can be used to develop reading machines for blind people and so on. Given its wide range of applications, development of pattern recognition systems is a hot topic and attracts the interests of software engineers and research students who are in the field of artificial intelligence.

**Pratibha Mishra
B. Sc. (Hons.) Instrumentation**

परीक्षा के दौरान तनाव

परीक्षा के दिनों में तनाव होना लाजमी है। आखिर इसका संबंध आपके भविष्य से जो होता है। यह तनाव अगर सकारात्मक हो तो अच्छा होता है, वहीं अगर कहीं यह नकारात्मक हो जाए तो सारे किये कराये पर पानी भी फेर सकता है। कई बच्चों को परीक्षा के नाम से ही बुखार हो जाता है। ऐसे में तनाव कम करने के गर सीखना बहुत जरूरी होता है। अधिक तनाव एकाग्रता को नुकसान पहुंचा सकता है, जिससे फायदा होना नहीं हो, लेकिन नुकसान बहुत हो सकता है।

परीक्षा के दिनों में बच्चों को ज्यादा मेहनत करनी पड़ती है इसलिये उन्हें स्वास्थ्यवर्धक आहार का सेवन करना चाहिए। इसके साथ ही पर्याप्त मात्रा में पानी भी जरूर पीना चाहिए इससे दिमाग तर रहता है। ताजा, हल्का और घर का बना खाना बच्चों का एनर्जी लेवल और एकाग्रता बढ़ाता है। इस तरह का आहार न केवल बच्चों को स्वस्थ रखता है बल्कि तनाव भी कम करता है।

परीक्षा के दिनों में लगातार पढ़ना और देर रात तक जागना शारीरिक व मानसिक रूप से नुकसानदेह हो सकता है। इसलिए शरीर और मस्तिष्क को आराम देने के लिए पूरी नींद लें। पर्याप्त आराम करने से स्मृति और एकाग्रता सही रहती है।

एक ही अवस्था में देर तक बैठकर पढ़ने से नुकसान हो सकता है इसलिए पढ़ाई के बीच में ब्रेक लेकर बॉडी को स्ट्रेच करें। इस साधारण से स्ट्रेच से मसल्स का तनाव कम होता है और पढ़ाई पर ध्यान केंद्रित करने में चमत्कारिक सुधार होता है।

परीक्षा के दौरान घंटों लगातार बैठकर पढ़ने से तनाव बढ़ता है। इसलिए जरूरी है कि बीच-बीच में छोटे-छोटे ब्रेक लेते रहें। इससे आप तरोताजा तो रहेंगे ही साथ ही रिविजन भी अच्छा होगा।

परीक्षा के दौरान तनाव को कम करने और सफलता के लिए जरूरी है कि पढ़ाई योजनाबद्ध तरीके से की जाए। विषयों और समय को सही तरीके से बांटकर नियमित अध्ययन करना, लाभदायक होता है।

परीक्षा के दौरान बच्चों को अपने माता-पिता की सपोर्ट की सबसे ज्यादा जरूरत होती है। ऐसे में माता-पिता को चाहिए कि वह अपने बच्चों का मनोबल बढ़ाएं। ऐसा करने उनका तनाव तो कम होगा ही साथ ही आत्मविश्वास भी बढ़ेगा।

प्राणायाम करने से परीक्षा के तनाव को कम किया जा सकता है। इसलिए ऐसा प्राणायाम करें जिसमें नाक से सांस लेना और छोड़ना शामिल हो। इसमें धीमी, गहरी सांस लेने से रक्तचाप कम करने में भी मदद मिलती है। ब्रेक के दौरान आप कभी भी इसे कर सकते हैं।

Why it's ok to feel stupid in Science

Picture this: You had a great day at college. You hung out with your best buds, you felt great all day and managed to get through all the lectures without feeling as if you just went through ever-lasting stretches of concepts that barely make it to the long-term memory. After such success, you return home, feeling good about life, to sit down in your comfortable study chair, sipping through your masala chai and decide to open one of your paper readings. Within a few moments of time, about five pages into the study session your mind decides to not understand English anymore and you find yourself staring at dancing melodies for a formula. Contempt and disappointment follow, hitting your heart right where it hurts and you are left wondering “ Am I too stupid to pursue science ?”

This scenario is the everyday life story for most science students going through their years of training and research. Self-doubt is just as much of a frequent visitor of the mind as the feeling of hunger. In fact, it's so normal that without it, life as a scientist can seem somewhat of an incomplete and unsatisfactory experience. I, just like you dear reader, used to feel the exact same way. How did I go from feeling stupid to believing in my own knowledge, you may ask. Here's the secret scoop and it's one of the simplest rules of life that I've ever learned.

It's all about understanding that you are actually a plant.

I'm not telling you that the whole of humankind is Groot from the Guardians of the Galaxy series, going through life expressing through their own versions of “I am Groot”. Although that is one of the greatest conspiracy theories my mind has ever produced, it is the tale for some other article.

What I mean when I tell you that you are a plant is that you are ever-growing, an ever-changing force of nature. You cannot possibly think that the information you recall so well and the sums you solve on your fingertips are all there is to that respective topic. There are infinite possibilities you not being able to conceptualise what is in fact just a minute particle of that universe of a subject does not equate to low intellect.

To be honest, it equates to nothing but our inexperience with what one may regard as the most commonly used verb in the scientific community. That is Researching. It is not just stating facts or about logging in already known information. At its core, research is about exploring what we truly wish to understand. It's about new information, fresh ideas and unknown connections. It's about the thought-provoking questions that you have the answers to whom you do not have. There is no other kid in the class who knows it. There is no way to just google it. It's just you, your questions and you feeling stupid about ** how can you just have questions without an answer.

Doesn't it make not having a well-formulated solution a pre-requisite?

So how do you stop feeling stupid about your questions?

It's Simple- you look for a solution. Solutions in science, just like in life, do not come easy. There's a lot of reading past works from those who have experience i.e. listening to people's experiences. Everyone has felt stupid at some point or another in their life. Ask your seniors or, even better, ask your batchmates.

Don't be shy. There is no shame in feeling stupid. After you've gathered the data that you require, analyse and give it the personal touch of your own brilliant intellect. Ask yourself: Where is this feeling of “not knowing enough” coming from? It is well known that external exploration is a hollow pursuit without inner introspection to back it up. Use your critical mind to figure out why you think the way you do.

Finally, You need to bring it all together and write out all your work. This article is the result of my lifelong research in the field of feeling stupid. I like to call it my PhD thesis expanding the horizons in the domain of “Feeling like you're too stupid to be a science student”. Through this process of compiling all my findings, I've been in a constant state of euphoria. I received the answer to my question and as I share it with you today, it is making me feel less stupid.

I hope you embrace your curiosity and appreciate the power of your mind because you are capable of everything you put your mind to.

Dhriti Jha
B. Sc. (Hons.) Biomedical Science

Why always me?

All what's happening around,
good doesn't sound.
Am I an object,
To be used by the king's subjects?
Occurring are mass murders and rape
But tell me, why am I at stake?
I know of a monster called man,
He stamped my mind for my entire life span.

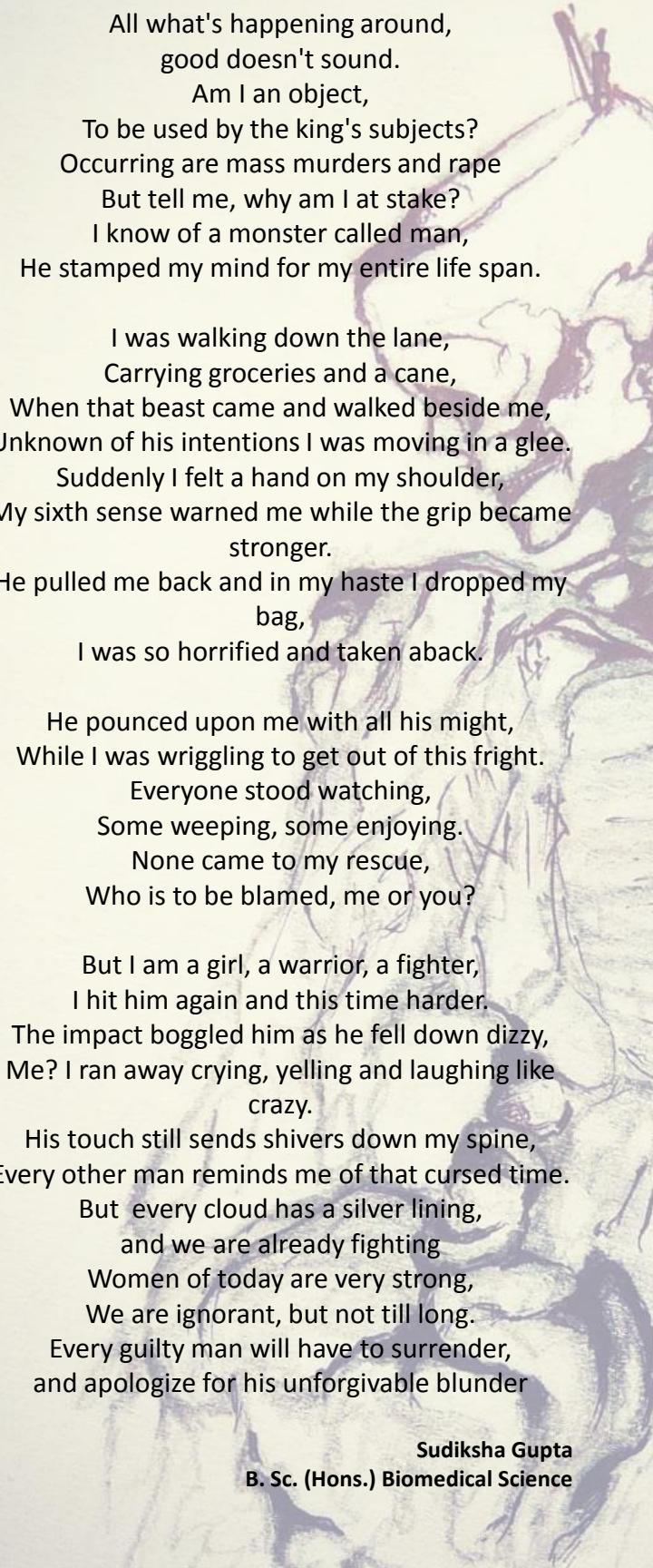
I was walking down the lane,
Carrying groceries and a cane,
When that beast came and walked beside me,
Unknown of his intentions I was moving in a glee.
Suddenly I felt a hand on my shoulder,
My sixth sense warned me while the grip became
stronger.
He pulled me back and in my haste I dropped my
bag,
I was so horrified and taken aback.

He pounced upon me with all his might,
While I was wriggling to get out of this fright.
Everyone stood watching,
Some weeping, some enjoying.
None came to my rescue,
Who is to be blamed, me or you?

But I am a girl, a warrior, a fighter,
I hit him again and this time harder.
The impact boggled him as he fell down dizzy,
Me? I ran away crying, yelling and laughing like
crazy.

His touch still sends shivers down my spine,
Every other man reminds me of that cursed time.
But every cloud has a silver lining,
and we are already fighting
Women of today are very strong,
We are ignorant, but not till long.
Every guilty man will have to surrender,
and apologize for his unforgivable blunder

Death



When it's near I fear
Of loosing his precious
Thinking about what
Might be left with me
When I'll go away from
This chaotically beautiful world
Who earned my life
Instead of me earning it's
Precious, my mind was
Jammed by those thoughts
of gold that never
allowed me to enjoy
his offerings that
He payed as he brought me
From my father, the Lord
Who gave me
to this beautiful creature
For the time he finishes his work
And now he, freed from his work
Has come to take me
back to himself
Where I belong where there
Are my precious
I shall now return
what belongs to
This person who broke
my father's trust by
making me love his own creations
Making me greedy to stay

Making me greedy to stay
More so that I forget
my dad's love for me
I shall now return to
where I originally belong,
to the Lord, to my father
Who has already arrived
at this person's destination
to take me away from
the precious that is his
and could never be mine...

गजल

समंदर-सा है मेरा जेहन जिसकी रवानी तुमसे है,
ये हँसी की छप छप है तुमसे, ये आँख का पानी तुमसे है।

ये गज़लें जाना उठती गिरती लहरों की आवाजें हैं,
तुम चाद सरीखी दूर सही, पर इनकी कहानी तुमसे है,

मझको कबके मेरी उदासी सहरा सहरा कर जाती,
बारिश की बून्दों की मुझमें ये तिश्नागहानी तुमसे है।

जाना समंदर पर सूरज का अक्स गुलाबी तुमसे है।
हाँटों की माथे पर मेरे शफ़क़ निशानी तुमसे है।

साहिल से तुम्हारे सीने पर हाथों की हलचल पल पल की,
शराफ़त दुनिया से है हमारी, छेड़खानी तुमसे है।

पानी-पानी चारों तरफ है, तिश्नागहानी चारों तरफ,
अमृत भी पानी मेरे लिए, अब ज़हर भी पानी तुमसे है।

नादानी तुम्हारी सब दुश्वारी पर भारी पड़ जाती है,
इस संजीदा दुनिया में जाना, जीने की आसानी तुमसे है।

है इक इलित्जा तुमसे मेरी, मेरे इश्क से मत उकता जाना,
तुम मेरा मज़हब हो जाना और सारी ईमानी तुमसे है।

चेहरे पर तेरे मीठी ओस की बन्दें हैं,
पर उसकी आँखों में देखो खारा पानी तुमसे है।

किसी नये से मिलने के लिए नया होना पड़ता है,
पर मुझको नहीं मालूम की क्या होना पड़ता है।

उस अजनबी का दिल दुखाना कौन चाहता था,
जाती ज़ख्मों को कहीं तौ बयां होना पड़ता है।

तू जिसको खोजे अंदर मेरे नहीं मिलेगा अब तुझे,
आईना देखने के लिए आईना होना पड़ता है।

वफ़ा की उम्मीद भी उस शै से जो है ही नहीं,
एतमाद हासिल करने को फ़ना होना पड़ता है।

चाँद तारे फूल पते और कुछ अच्छी मिसालें,
इनको समझना हो तो खुद हरा होना पड़ता है,

वक्त आदमी को उकता देता है अपने आप से,
जीने के लिए इसके बाद झूठा होना पड़ता है।

हवा को तोड़ कर हर इक कतरे से मैंने पूछा,
क्या जबरन तुम्हें इंसानों की दवा होनी पड़ता है?

जिस जर्मी के थे उस जर्मी पर जाना चाहते हैं,
अब वहाँ उतरने के लिए आसमां होना पड़ता है।

दुनिया के हर हादसे का सबब ये है कि यहाँ,
हिसाब ए ज़रूरत आदमी को दूसरा होना पड़ता है।

एक नया सवेरा आएगा, जब ये सारा अंधेरा छंट जाएगा
जो अभी आँखों से ओङ्काल है, वो साफ साफ नज़र आएगा

आने वाला कल एक सुनहरा मंज़र लाएगा
साथ होंगे सभी अपने, महफिलें होंगी वही पुरानी

किस्से कई बनेंगे फिर से, तो अधूरी रह जाएगी फिर कोई कहानी
ना होना आज निराश तू, कुछ पल की है ये दूरी

ये फासले तो मिट जाएंगे, करेंगे हम कोशिश पूरी
इस मुश्किल दौर में, रख खुद पे विश्वास तू

ना हारना हिम्मत, ना छोड़ना आस तू।

Vibhat

B. Sc. (Hons.) Physics

नया सवेरा

राशि आनंद

B. Sc. (Hons.) Biomedical Sciences

बेटियाँ तो हैं सबसे ज़्यादा ज़रूरी

मासूम सी नन्ही परी है वो,
ज़िन्दगी के अंधेरों को चीरती तेज़ धूप है वो,
साक्षात लक्ष्मी का स्वरूप है वो ।

बहते पानी सी निर्मल है वो,
शीतल हवा सी चंचल है वो,
उगते सूर्य सी उज्जवल है वो ।

क्या सिर्फ बेटे से बढ़ता है वंश ?
क्या कुलदीपक में उसकी माँ का नहीं है अंश ?
क्या यही सोच समाज में नहीं बन गई है टंश ?
देवी की पूजा कर खुद को समझते हो 'बड़ा भक्त',
फिर अपनी ही बेटी की ओर रवैया क्यों है सख्त,
कन्या भूषण हत्या कर के बहाते हो देवी का रक्त ।

थोड़ा सा दुलार बेटी भी पा ले, इसमें क्या है हज़्र,
माता पिता की सेवा को ही वो मानती है अपना फ़र्ज़,
उसकी चंचलता मिटा देती है मायूसी का हर मर्ज़ ।

उसके तेज से घर-आँगन दमकने दो,
चिड़ियों की तरह उसे चहकने दो,
उसकी मुस्कुराहटों से दिलों को महकने दो ।
बेटियाँ हैं इंद्रधनुषी रंग जिससे ज़िन्दगी की तस्वीर हो पूरी,
बेटियाँ हैं सरगम जिसके बिना जीवन की धुन है अधूरी,
बेटियाँ तो हैं सबसे ज़्यादा ज़रूरी ।

स्वाति गुप्ता, सहायक प्राध्यापक
रसायनिक विज्ञान विभाग

नंहीं सी जान

वो भोली थी, वो नादान थी
वो पेट में पल रही एक नंहीं सी जान थी ,
उसकी माँ उसको लेकर थोड़ा सा परेशान थी
शायद अपने घर वालों के इरादो से भी कुछ अनजान थी ,

उसकी नंहीं किलकारी पूरे घर को एक सुंदर फुल की
तरह खिला सकती थी,
वो उन बिछड़े रिश्तेदारों को एक बार फिरसे मिला
सकती थी,
वो जब पहली बार रोती तो सब हँस सकते थे,
उसकी शैतानियों में सब आसनी से फ़ंस सकते थे
पर उसकी किसमत कहां इतनी सची थी ,
जो इस दुनिया में आ भी ना पाई , वो एक मासुम
बची थी

STOP FEMALE FOETICIDE

Pooja
B. Sc. (Hons.) Microbiology

काश

काश ताले ना होकर फूल होते,
तुम कड़क ना होकर मशगूल होते।

काश कांच ना होकर आईने होते,
तुम झूठे ना होकर कर्म होते।

काश सांप दसता तो दुगना दर्द होता,
पर इंसान सांप है ये पहले से पता होता।

काश इतना इंतज़ार न होता,
होता तो किसी इसान का ना होता।

काश हर दरवांजा बंद ना होता,
और जो खुला होता उससे डर ना होता।

काश लोगों की जबां पर नहीं घर पर ताले होते,
काश तालों की जगह फूलों के झाले होते।

काश सही गलत के सारे हवाले ना होते,
हर ख्वाब को तराजू से नापे ना होते।

काश अलमारी बंद होती दिल खला होता,
काश दिल खुला होता फिर भी पाक़ साफ़ होता।

काश हर ताले की एक चाबी होती,
और हर चाबी खूबसूरत होती।

काश मेरा आकाश इतना सिमटा ना होता,
काश मेरी हर बात में एक काश ना होता ॥

-आशी मित्तल
B. Sc. (Hons.) Physics

खुशियाँ

ये खुशियाँ किन बाजारों में बिकती हैं

किन हवालों में मिलती हैं।

ना जाने लोग इसे ढूँढने कहाँ कहाँ निकल जाते हैं।
कोई पैसों में ढूँढता है

तो कोई उनसे खरीदी हुई चीजों में खुशी ढूँढता है
कछ लोग मुँह पर मुस्कुराहट लाकर खुद को खुश
बैताते हैं

और कुछ लोग सन्नाटे को ही खशी मान लेते हैं
मगर ये खशियाँ का खजाना आँखेर मिलता कहा है
खुशियाँ ऐसी कि हर किसी के चहरे पर मुस्कान ले
आए,

हम ढूँढते हैं वो खुशी

जो दूसरों की खशियाँ देखकर ही खद खश हो जाए
जो अपने पराये में भेद ना करके भी खुशियाँ लटाए
जो किसी के चहरे पर एक मुस्कुराहट लैने के लिए
कुछ भी कर जाए

जो थोड़ा सा प्यार बरसा दो तो जिंदगी भर के लिए
आपके हो जाएं।

यही तो है खुशियाँ और प्यार जिसे अकसर लोग ढूँढते
रह जाते हैं

और बटोरते बटोरते अपनी हँसी भुला देते हैं
आओ चलो कुछ दूर हमारे साथ

जिंदगी में हसने का तरीका आ जाएगा

खश रहने का एक सलीका आ जाएगा।

यहीं नहीं बिकती सारी चीजें बाजार में

कुछ चीजें बिना मोल के भी आती हैं उपहार में।

खुशियाँ यहीं नहीं मिलती हैं बाजार में।

खुशियाँ हमारे आसपास ही होती हैं बस फर्क इतना
है की हम ताउम इसे ढुँढने में मशरूफ हो जाते हैं,
ओर ये अपनी उड़ान भर कही और दस्तक देती है !

Sourabh Kumar
B.Sc. (Hons.) Electronics

मेरे सपनों का शहर

सपनों का शहर टूट रहा हो जैसे
पिंजरे का कबूतर रुठ रहा हो जैसे
मछली की सौसे रुक सी गयी हैं
दरिये का पानी सख रहा हो जैसे
शाखों से पते गिर रहे हैं

कोई पेड़ प्यास से जूँझ रहा हो जैसे
मधमकिखियों की जान पर बन आई है
शहैद अपनी मिठास खो रहा हो जैसे
खेतों में आँस उग आए हैं
कोई किसान रौ रहा हो जैसे
रावण का जीना बेहाल हो गया है
कुम्भकरण अब तक सो रहा हो जैसे
बागबान के पसीने छूट रहे हैं
अमरुद का पेड़ आम उगा रहा हो जैसे
तलब मेरी बढ़ती जा रही है
काफिर कोई जाम बना रहा हो जैसे

शर्मिला यार

नज़र मिला कर नज़र चुराया न कर
कछ कहना हो तो शर्मिला न कर
बेकार की बातों पर वक्त गवाया न कर
साफ-साफ कह दिया कर हर बात को घुमाया न कर
तेरी आँखें सब बताती हैं
कोई राज हो तो छिपाया न कर
कल क्या होगा क्यों सोचना
फिजूल में ही घबराया न कर
खुशमिज़ाज रहा कर हिज़ को पास बुलाया न कर
इश्क कर प्यार बाँट
एक ही ज़िन्दगी है इसको यहीं जाया न कर

Arvind Saini

B. Sc. (Hons.) Chemistry

आक्रोश सपनों का

दुनिया को जीने का सही तरीका सिखाना है
और किसी की नहीं, सिर्फ खद की सुनना है
मँझे तो सिर्फ इस देश के लिए कछ करना है
करके इतनी मेहनत, बना लंगा खुँद की दशा ऐसी
की, जिंदगी भी सोचेगी, क्या लैं मैं अब परीक्षा इसकी
मैं अपना सब कछ दांव पे लगाने को तैयार हूँ
मैं अपने सपनों के लिए, एक क्या, हज़ार बार भी गिरने को
तैयार हूँ

बस खुदों की हो रहमत, ओर सफल हो जाए मेरी मेहनत
मैं हर वो चीज़ करने को तैयार हूँ
कि, सपने खुद बोल उठे, की मैं सिर्फ तेरा अधिकार हूँ।

सुयश अवस्थी

B. Sc. (Hons.) Computer Science

हाथ मेहनत की ओर मोड़ कर तो देखो
खुद को अंदर तक निचोड़ कर तो देखो
कछ भी ममकिन है, अगर ठान ले हम
एक बार गिरकर, दोबारा उठकर तो देखो
गरीबी में जिओं मगर खवाब अमीरों के देखो
सारे खवाब होंगे परे, पहले सपने तो देखो
जिंदगी सुधर जाएगी, एक अच्छा इंसान बन के तो देखो
सपने जरूर होंगे पूरे, शरुवात तो करके देखो
कामयाबी के हर राज को जानना है
आलास ओर लालच से खद को बचाना है
अपने हनर से इतिहास रच के दिखाना है
यां, बातें तो ऐसी सब करते हैं यार,
पर मुझे ये साबित करके दिखाना है

बातों को भूल जा

एक post कर फिर react कर और भूल जा,
क्या हुआ शहर में ये जानके भूल जा,

एक ग़ज़ल लिख, दो शेर लिख और बस,
एक बार मुद्दा उठा और फिर भूल जा,

वो मर रहा है मरता रहे तुझे इससे क्या?
एक photo ले upload कर और भूल जा,

एक मोमबत्ती देना, सुना है rape हुआ है?
माचिस से जला और आधी जलाँ के भूल जा,

चलो मुलजिमों को सजा की ग़हार लगाते हैं,
कुछ Status लगा और एक दिन बाद भूल जा,

सारा कसूर सरकार का है, उसने कुछ किया नहीं,
जिंदा लाश तो हो ही तुम, ये मुद्दा सुन और भूल जा,

आओ घर से निकलो चलो सरकार जगाते हैं,
पर "कार्तिक" मुद्दा क्या है ये बताना भूल जा,

तुझसे जुड़ी मेरी ग़ज़ल.

कुछ शेर जोड़कर बनी मेरी ग़ज़ल,
हमारी कहानी संवारती मेरी ग़ज़ल,

कहीं स्टेशन पर दर बैठे किसी,
अजनबी को बुलाती मेरी ग़ज़ल,

जितने सवाल थे हमारे दरमियान,
उन सबका जवाब देती मेरी ग़ज़ल,

ये ग़ज़ल नहीं खुद में खड़ा हैं,
और मुझसे बात करती मेरी ग़ज़ल,

घड़ी के कछ पल और मेरी ग़ज़ल,
उन पलों की कहानी सुनाती मेरी ग़ज़ल,

किसी रास्ते पर उड़ती धूल के बीच,
तेरा चेहरा साफ दिखाती मेरी ग़ज़ल,

मेरी ग़ज़ल में कई अफसाने कैद हैं,
किसी किस्से को रिहा करती मेरी ग़ज़ल,

एक ख्याल

आज कर्सी पे बेठे बेठे
एक ख्याल आया
क्यूँ हम सभने एक इन्सान अपने
अंदर छपाया
वो इन्सान जो जीता है अपनी मर्जी से
नहीं करता हो कोइ काम किसी की अर्जी से
वो जो ना डरता हो उड़ने से
चाहे कितनी बार काटे हो उसके पंख झटके से
वो जो सिर्फ इस पल का सोचे
बीते हुए कल की चिन्ता और आने वाले कल
की परवाह में खुद को ना झोके
वो जो हर पल में जीए खुलके
क्यूँ कि ज़िन्दगी की किताब का अगला पन्ना
कभी नहीं खुलता चुनके
आज ढूँढ लो उस इन्सान को तुम्हारे अंदर ही
है
लेकिन तुम्हारी उम्र से काफ़ी कम ज़िन्दगी
उसने जी है...

मेरी माँ

दिवाली के दियो सी जगती है
रोशन पूरे घर को करती है
कहती नहीं कछ कभी
मगर हमारे रोने से डरती है
सबको अपनी प्यार की चादर मैं लपेटा है
खुद चाहे बीमार हो पर सबको समेटा है
रात को मैं जब होती हु बीमार मेरे साथ
जगती है
मेरी हर ख्वाहिश को मुकमल करती है
पास हो या ना हो साथ कभी नहीं छोड़ती
कैसे भी हो हालात
अपना वादा कभी नहीं तोड़ती
माँ कहने को तो है तीन अक्षर का शब्द
पर मेरी पूरी दुनिया का है वो अर्थ
मुझे परेशान करने वालों के लिये बन जती है
बवंदर
मेरे लिये है एक शांत समंदर.....

जानवी सरीन

B. Sc. (Hons.) Biomedical Science

-कार्तिक

B. Sc. (Hons.) Electronics

2019-20

यादें



Department of Biomedical Science



FIRST ROW : Mr. Parvesh (standing), Sitting: Mr. Ram Kishan, Dr. Neha Singh, Dr. Pawas Goswami, Dr. Kapil Roy, Dr. N.S. Abbas, Dr. Balaram Pani, Dr. Uma Chaudhry, Dr. Uma Dhawan, Dr. Shvetambri Arora, Dr. Shubhra Barwa

SECOND ROW : Mr. Vinay Chauhan, Dhriti Jha, Navneet Kumar, Sahil Rana, Priyadarshi Anand, Kalindi Dang, Ojal Saharan, Prinsky Kumari, Priyanka, Pushpa Kumari, Kritika Prasad, Drishti Sikdar, Saloni Singh, Samarth Dhole, Yami Garg, Mehak Bhatia

THIRD ROW : Naveen Kumar Maurya, Rohit Shrestha, Kapil Yadav, Aryan, Pratik Sharma, Anish Kumar Ranjan, Niharika Atriwal, Nilesh Kumar Kaundal, Varnika Khattar, Muskaan Sharma, Nikita Singh, Pooja Sharma, Mahima Yadav, Deepti Roy, Sazida

Department of Botany



FIRST ROW: Dr. Gurumayum Suraj Sharma, Dr. J. Dinakaran, Dr. Ruchi Gulati Marwah, Dr. Uma Chaudhry, Dr. N.S. Abbas, Dr. Balaram Pani, Dr. Sujata Bhardwaj, Dr. Julie Thakur, Dr. Salam Sonia Devi, Dr. Shikha Srivastava

SECOND ROW: Mr. Bir Singh, Mr. Mehfooz Alam, Ms. Geeta Bisht, Ritu Kshatriya, Bhawna, Yamini Singh, Harsh, Poonam, Riya Garain, Sakshi Rawat, Rupal Tiwari, Reena Yadav, Neha Jha, Rashmi, Aabiyeh Parveen, Pinky, Aman

THIRD ROW: Mr. Anoop Kumar, Mrs. Maneesha, Vivek Chamoli, Umang Singh Patel, Shubham Arman Jha, Abhishek Chauhan, Aditya Rawat, Ankush Kumar, Deepak Kumar, Preeti.

Department of Chemistry



FIRST ROW : Mr Vijay Kumar, Dr Sampat Singh Chauhan, Mr Bholey Singh, Dr Manjeet Singh Barwa, Dr Balaram Pani, Dr Swati Gupta, Dr Shailja Singh, Dr Ashima Singh, Mr Vijay Kumar.

SECOND ROW : Priyanka, Ashima, Apporva, Heena, Simranjeet Kaur, Anshum, Anukriti, Parul, Akansha.

THIRD ROW : Mr Mahesh Dixit, Mr Sunil Kumar, Puneet, Sagar, Manoj, Vikas, Arvind, Chetan, Nitanshu, Prashant.

FOURTH ROW : Mohit, Abhishek, Ashish, Harsh, Anirudh, Mayank, Hitesh, Nitin.

Department of Computer Science



Front Row: Ms. Asha, Ms. Seema, Dr. Ragini Jindal, Dr. Sangeeta Srivastava, Dr. Balaram Pani, Mr. Bhavya Deep, Mr. Rajkumar, Mr. Mohit, Dr. Jayant Sharma

Second Row: Naveen Kumar, Shubham Jain, Deepali Sharma, Aayushi Singh, Surbhi Sharma, Nikita Mogha, Shweta Goel, Amzad Khan

Third Row: Ankit Bhola, Arun Kushwaha, Vineet, Vineet Kumar, Jai Kishan, Suraj Prasad, Pradeep Maurya, Vikas Bhardwaj, Akash Yadav, Vipul Sharma, Ritik Chauhan

Fourth Row: Ashish Yadav, Nitin Mishra, Vishnu Kumar, Rohan Gussain, Rohit Yadav, Gaurav Mirotha, Chirag Sharma, Mohit Kumar, Vivek Mehta, Pankaj Sharma, Atul Saini, Surya Pratap Singh, Ashish Arora

Department of Electronics



First Row: Ms. Aarti Malyan, Ms. Shweta Gupta, Dr. Inderbir Kaur, Dr. Geeta Mongia, Dr. Balaram Pani, Dr. Avneesh Mittal, Mr. Shani Kumar, Mr. Bahadur Singh

Second ROW : Akshay Sanwal, Tauseef, Kartik, Sachin, Aditya Raj, Sourabh Kapoor, Muskan, Fayaz, Ahmed, Hargovind, Mr. Mohan Yadav, Mr. Suresh Kumar, Mr. Vijay Singh

Third ROW : Aakash Shakya, Asgar, Abhishek Pandey, Amit, Harshit Dubey, Abhishek Jain, Anubhav Tiwari, Arjun, Manjeet Singh

Fourth ROW : Nikhil Kumar, Monu, Amit Ghosh, Abhinav, Sandeep Sharma, Aditya Yadav

Department of Food Technology



FIRST ROW : Dr. Sakshi Khurana, Dr. Meenakshi Garg, Dr. Eram Rao, Dr. Balaram Pani, Dr. Rizwana, Dr. C. Lalmuangpua, Dr. Roshan Lal, Mr. Tarun Kumar

SECOND ROW : Parul Maurya, Litakshi Popli, Chandni Tayal, Komal, Twinkle Kesharwani, Sakshi Singh, Bhumika Dhoundiyal, Shubhangi, Tamanna Dhasmana, Vishnupriya, Abha, Parul Verma

THIRD ROW : Ashutosh Gahlaut, Aneem Pe, Astahsan, Amit Kumar, Ekhlaq, Sayies, Akshay

FOURTH ROW : Saksham, Vinay Balodi, Sanjeev Kumar, Mritunjay Pandey, Nazim Khan, Lovepreet

Department of Instrumentation



FIRST ROW : Mr. Ashok Chhikara, Ms. Gurkiran Kaur, Dr. Anil Rathi, Dr. Avneesh Mittal, Dr. Balaran Pani, Mr. Rakesh, Dr. Amandeep Kaur, Mr. Manoj Kumar, Mr. Banas Ranjan Parida

SECOND ROW : Bhavna Singh, Deepika, Anjali, Roopa Pandey, Tanushri, Arpana, Pratibha Mishra, Shishir, Ankit Jangid, Shivam Nikhel, Shashank Singh, Vikas Manjeda, Chakit Vashisht, Yogesh Chandran, Sumit, Utkarsh, Vaibhav

THIRD ROW : Akash, Sarvesh Rai, Suraj Dutta, Madhvendra Ojha, Nikhil, Pawandeep, Vishal Yadav, Satyam Kumar Jha, Rajeev Bora, Shivang, Jeetu, Mohit Singh, Himanshu, Abhishek Tiwari, Kushank, Akarsh

FOURTH ROW : Antriksh, Saurabh Kishore, Nitesh, Saurabh Mangla, Krishna, Shubham Malhotra, Shrish Pratap Singh, Ashish Sharma, Sahil, Rohit Siwach, Shubham, Harsh

Department of Microbiology



FIRST ROW : Mr. Shankar, Dr. Ratyakshi, Dr. Pawas Goswami, Dr. N Vijaya Kumar, Dr. Ruchi Gulati Marwah, Dr. N. S. Abbas, Dr. Balaram Pani, Dr. Purnima Anand, Dr. Sujata Bhardwaj, Dr. Gunjan Sirohi, Dr. Neeru Bhagat

SECOND ROW : Suchandana Deka, Tanushree Singh, Riya, Chanchal, Riya Gond, Sreyashi Nath, L S Pranathi Ganti, Riya Bongirwar, Nandini Nagpal, Pooja Meena, Shreya Sharma, Harshvardhan Singh, Mr. Praveen

THIRD ROW : Aman Jaiswal, Abhishek Behera, Lokesh, Poushinglung Kamei, Manish Kumar, Mishal Khan, Sukamal Kundu, Ayush Upadhyay, Ashmit Mittal, Areef Kammugari, Mr. Satish

Department of Physics



FIRST ROW : Sh Anil(Guest), Dr. Herendra Kumar, Sh Kavindra Kumar, Sh.Sandeep Kumar, Dr. Anand Bhardvaja, Dr. Balaram Pani, Sh. Neeraj, Dr. Vandana Batra, Dr. Meetu Luthra, Sh.Ramesh Kumar.

SECOND ROW : K S Sudish, Sh Amit, Vivek Negi, Hritik Singh, Abhishek Chaurasia, Shekhar, Shivanshu, Vivek Singh, Hardik, Mahesh Kumar

THIRD ROW : Sachin Nahar, Manan Malpani, Kunal Nagpal, Pulkit Mehta, Chandra Prakash, Aman Saxena, Sachin Choyal, Vivekanand, Inderjeet Soni, Amit Choudhary

FOURTH ROW : Vikhayaat Kumar, Harsh Saroha, Ram Krishan Saini, Shakti Singh

Department of Polymer Science



FIRST ROW : Faculty: (From extreme left) Dr. Anil Barak, Dr. Krishna Dutt, Dr. Gulshan Dhra, Dr. Umesh Kumar, Dr. Balaram Pani (Principal), Dr. SidhhARTH Sirohi (TIC), Dr. Susmita Dey Sadhu, Dr. Prem Lata Meena, Mr. Rajendra Singh (Lab Staff)

SECOND ROW : Mr. Adarsh Pratap Singh, Ms. Priksha Gupta, Ms. Maanvi Bhutani, Ms. Riddhi Dhawan, Ms. Komal, Ms. Ashmita Tiwari, Ms. Nitika, Mr. Praveen Yadav (Lab Staff), Mr. Shiva, Mr. Sumit (Lab Staff)

THIRD ROW : Mr. Manish Kumar, Mr Chetan Kumar Mishra, Mr. Mohd. Suhail Azam, Mr. Sailesh Juyal, Mr. Arun, Mr. Mohd Shaqib Saifi, Mr. Rahul Singh, Mr. Sunil Choudhary, Mr. Nitin, Mr. Sahil Kumar

FOURTH ROW : Mr. Sumit Pal, Mr. Ajay Negi, Mr. Akash Yadav, Mr. Ankun Goyal, Mr. Hitesh Duggal, Mr. Shubham Singh

Department of Zoology



FIRST ROW : Mrs. Maneesha, Dr. Laljee Ram Meena, Dr. Amit Kumar Singh, Dr. Anil Kumar Bali, Dr. Balaram Pani, Dr. Satyam Ravi Dwivedi, Dr. Anjali Saxena, Dr. Pallee Shree, Ms. Geeta Bisht

SECOND ROW : Mr. Vinod Kumar Sharma, Mr. Dev Singh, Ms. Shweta, Ms. Saniya Shamas, Ms. Garima, Ms. Shirin Qureshi, Ms. Pratiksha, Ms. Neha Yadav, Ms. Sapna, Ms. Sushma Yadav, Ms. Kavya Sarthi, Ms. Niti Sharma, Ms. Akansha Gupta, Mr. Abhishek, Ms. Varsha Kaushik

THIRD ROW : Ms. Pragya Bhargava, Mr. Sidhant Singh Tomar, Mr. Pradeep Sughra, Ms. Yashika, Ms. Meenu Gautam, Mr. Sunny, Mr. Kunal Rai

Teaching Staff



Non-teaching Staff





DEPARTMENTS



DEPARTMENT OF BIOMEDICAL SCIENCE

Students of the Department of Biomedical Science attended various workshops, summits and lectures during the academic year. These included the 10th edition of the TNQ Distinguished Lectures in the Life Sciences 2020 by Dr. Venkatraman Ramakrishnan, Nobel Laureate and President of the Royal Society, London on January 24, 2020; International Summit on Women in STEM, Visualizing the Future: New Skylines held at India Habitat Centre on January 23-24, 2020 and a workshop on "Train for Clean Air: Youth Workshop" organized by Clean Air Asia India Team, September 26, 2019, at India International Centre, Delhi.



A one-day inter-college departmental festival "Genesis 2020" was organized by DNAmics - the society of Department of Biomedical Science, on February 6, 2020. Invited lectures by Prof. K. Natarajan (Professor, Dr. B. R. Ambedkar Center for Biomedical Research) and Prof. Vibha Tandon (Professor, Special Centre for Molecular Medicine, Jawaharlal Nehru University) and four events namely Vaigyanik Pictionary, Treasure Hunt (D.E.C.O.D.E.D), Gravity Flip and Collage making competition on the topic 'Genetics: Past, Present and Future' were organized. Students from various colleges across Delhi actively took part in all activities.



Students went for an educational trip to Bundelkhand University, Jhansi for attending the 3rd National Conference on Emerging Synergistic Trends in Ayurvedic and Biomedical Sciences under the leadership of Dr. Uma Dhawan. Final year students Drishti, Samarth and Deepti won the “Best Poster” award for their poster entitled “How Epigenetics Orchestrates Cellular Ageing” during the Conference.

Ashima Jha, a student of B. Sc. (Hons) Biomedical Science I year has brought laurels to the college. She has been awarded at several MUNs across the globe. Recently, she won the “Best Delegate” award at the Model United Nations Convention held in Turkey on February 23, 2020. She was highly applauded and admired by Guest of honour, Her Excellence, Laila Rahai and other executive board members and representatives. During her award ceremony, all the official delegates gathered and sung the National Anthem with our Indian flag hoisted high - a proud and truly memorable moment. Ashima briefed the gathering about our Indian culture and also had a chance to recite Vande Matram on the occasion. She officially represented India at the cultural performance.

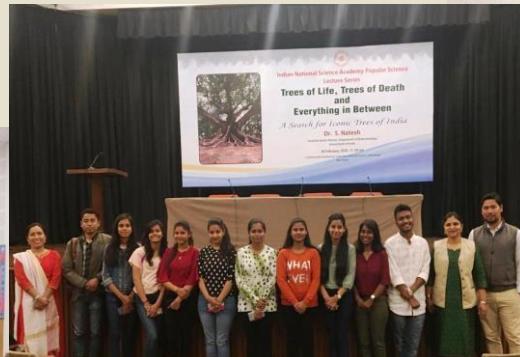
DEPARTMENT OF BOTANY

The Department traces its origin back to 1995 where it used to support the requirement of the Biology Department. It elevated itself to offer major courses in Botany since the year 2017.



The Department organized lectures by Prof. K.S. Rao (Head of the Department) and Prof. Arun Jagannath(Professor) from the Department of Botany, University of Delhi delivered an inspiring lecture on “Climate Change” and “Plant Biology: Science without Boundaries” respectively. A one-day Inter-college workshop and hands-on training on “Intellectual Property Rights” was conducted with two renowned speakers Dr. Arun Kumar Maurya and Ms. Prity Khastgir. Faculties and students from other colleges of the University of Delhi participated in the workshop. Several educational trips were organized to renowned institutes, such as Jawaharlal Nehru University (JNU), National Bureau of Plant Genetic Resources (NBPGR), National Institute of Science Communication and Information Resources(NISCAIR)and Aravalli Biodiversity Parkso as to provide an exposure to the current scientific avenue and instrumentation techniques.

The Department encourages students to participate in conferences, seminars, popular lectures conducted by scientific organizations, aimed to facilitate progress in biological sciences through the promotion of research, training and education. As a part of the National Science Day celebration, students attended an outreach program at Regional Centre for Biotechnology (RCB), Faridabad, and Vigyan Bhavan, New Delhi. The students also attended a talk by Dr. S. Natesh as a part INSA popular science lecture series held at India International Centre, Lodhi Road, New Delhi.



DEPARTMENT OF CHEMISTRY

The Department of Chemistry is dedicated to excellence in education, research, and public service. We strive towards these goals through classroom teaching and practical training. The research aimed at solving some of society's most important issues viz. human health, energy, and environmental problems, fostering an environment of safety and embracing the diversity of communities and ideas to benefit the city, the nation, and the world.



As an important component of Natural Sciences, Chemistry offers the students an ideal platform to begin exploring the composition, structure, properties & behavior of all forms of matter. The Department of Chemistry has started B.Sc. (Hons.) course in chemistry from the current academic year i.e. 2017-2018. It has received an overwhelming response.

The infrastructural facilities in this department include experimentation laboratories for under-graduate, research laboratories, instrumentation laboratory, book bank, BEST(Bhaskaracharya Environmental Sustainability Task-force), class-room with ICT and wi-fi facility for students and staff. The laboratories are well-equipped with sophisticated instruments that enable students to carry out all the experiments as prescribed in the syllabus. Besides these, there is an instrumentation laboratory for carrying out experiments in physical chemistry and analytical techniques. Moreover, there are dedicated laboratories to carry out research work in leading areas of chemistry that are equipped with sophisticated modern instruments being funded by BRNS, SERB, DST and the University of Delhi. Currently, four students are pursuing Ph.D. in this department. The department of chemistry has a chemical society named "ALCHEMY" which conducts events for the holistic development of the students.

The department has a personal blog(<http://bcaschem.blogspot.in/?m=1>), Google-groups, Email and WhatsApp group that are being pooled by teachers and students to share views, news, ideas and academic achievements of the department from time to time.



DEPARTMENT OF COMPUTER SCIENCE

The Department of Computer Science focuses on the holistic development of the students. The Department has its own techno-cultural society CS.Net. This society organizes various events throughout the year to make our students technologically competent in the ever-growing IT industry and enjoy the latest technology to the fullest.



A seminar on 'Machine Learning using Python' was organized on 20th September 2019 in collaboration with DUCAT on educating students about machine learning concepts and using python to solve industry-related case studies. Educators from DUCAT guided students to join a career in the growing industry of machine learning with a wider scope. The Session was Interactive where students raised queries and got reviews on the recent scenario of the machine learning field.

A workshop on 'cloud literacy day' was organized in collaboration with ICT Academy on 15th Oct 2019. The students and faculty were enriched with the knowledge of cloud services provided by Amazon Web Services (AWS) platform. The participants were given an opportunity to earn an Inventor's Badge (digital certificate) after taking a quiz which was made free of cost for the participants of BCAS on 'Cloud Literacy' day. More than 120 students had participated in this event.



A Seminar on 'Importance of Higher Education' in collaboration with eminent strategy was held on 6th February 2020. During this event, students were informed about the importance of higher education and career opportunities in addition to the IT field.

The Department also encourages the habit of maintaining cleanliness throughout. On the 17th of January 2020, the Department took Swachta pledge and participated in cleaning the Department collectively.

CS.Net celebrated an inter-college techno-cultural festival "INTERFACE 2K20" ON 12TH AND 13TH February 2020 with a fusion of technical and entertainment events like Code War, Tech Quiz, Marvel Quiz, PUBG, FIFA 2019, Smash it, etc. In this event, approximately 350 students participated from 15 different colleges of the University of Delhi.

DEPARTMENT OF ELECTRONICS

The Department of Electronics has its society named 'SPARKS' which organises various workshops, seminars, industrial visits, etc. every year. To keep the students abreast of the recent trends and technologies this year also, several events were organized.

A lecture on "Embedded Systems" by Dr. Dhananjay V. Gadre, Netaji Subhas University of Technology, was organised on September 9, 2019. In the lecture, students were made familiar with the use of microcontrollers in day to day life supported by real-time microcontroller-based kits. An informative lecture on "High Electron Mobility Transistors" by Dr. D. S. Rawal, Scientist- 'G', Solid State Physics Laboratory was organized followed by Alumni Interaction on February 6, 2020, by the Electronics Society 'SPARKS' under Electronics Fest, TECHMANIA. The students from various departments enthusiastically participated in the event.



An educational visit to Vigyan Samagam at National Science Centre, Pragati Maidan was organised on February 14, 2020, for the students of Electronics II and III years. The students got an opportunity to get exposure to various research projects. The visit also included lectures by eminent speakers from renowned organizations and universities.



The Annual Intercollegiate Departmental Fest “TECHMANIA” was organised by SPARKS, the Electronics Society on February 20, 2020. The fest included many technical events like Creation and Innovation, Circuit Making, etc. and fun games. The students of various disciplines participated in the events with great zeal and vigour. The winners of the various events were also awarded. Overall the fest was a great success.

DEPARTMENT OF FOOD TECHNOLOGY

The department of Food Technology organized several activities for students.

A skill enhancement and entrepreneurship workshop on baking was organised for the final year students of Food Technology on February 6, 2020. The students learning Bakery Technology prepared walnut brownies which were suitably packaged and labelled also. They also marketed them within the college. This workshop was envisaged to enable the students to cultivate entrepreneurial skills. A batch of twenty-two students of B.Sc. (Hons.) Food Technology from the Institute of Home Economics, DU, visited the Department of Food Technology along with two faculty members on October 30, 2019. The purpose was to explain the principle and demonstrate the working of various food engineering and packaging instruments such as Brookfield's Viscometer, Packaging machines and various Package Testing machines. National Nutrition Week was celebrated in the Department on September 9, 2019, in collaboration with PepsiCo India Ltd. Ms. Rekha Sharma, former HOD of Dietetics Department at All India Institute of Medical Sciences and Ms. Ankita Marwaha, Associate Director, R&D PepsiCo were the resource persons for the event. Share your bowl of oats – Recipe contest and Tack Boards/Display Boards contest were organised for the students of the department.



An inter-collegiate 'Food Safety Quiz' was organised by the department in association with AFST(I), Delhi chapter and Confederation of Indian Industry on August 26, 2019. The quiz was held as a part of the 'Surakshit Khadya Abhiyan' initiative of CII. students from various colleges of Delhi University, Amity University (Noida), Manav Rachna International Institute of Research and Technology (Faridabad) and National Institute of Food Technology Entrepreneurship and Management (Sonepat) participated in the quiz. Shri. Sanjay Dave, Fr. Chairperson of CODEX Alimentarius and Chairman, SKA, CII was invited to deliver a special lecture to the students and was also the quiz master. A Nutrition Awareness Activity with the theme 'Good Food for Healthy Life' was organized by the department in collaboration with the Protein Foods & Nutrition Development Association of India and AFST (I) Delhi Chapter on March 15, 2019. All the students of the department and faculty members participated in the event. Four speakers were invited for the technical session- Dr. Sakshi Bhushan, Principal Nutritionist Marico; Ms. Mili Bhattacharya Scientific, Nutrition and Regulatory, Coca Cola; Ms. Neelanjana Singh, Former President IDA, Delhi Chapter and Mr. Indranil Chatterjee from Dupont.



DEPARTMENT OF INSTRUMENTATION

Sensors Society of Department of Instrumentation organized an invited talk on September 25, 2019, by Shri Satish, Senior Scientist, Electrical and Electronics Metrology Division, CSIR, National Physical Laboratory (NPL). The topic of his talk was “Metrology and its role in improving quality of life”. He enlightened students with various standards and calibration techniques used in instruments. The lecture was attended in large numbers by students of all streams.



The society organized a one-day Technical Festival “Mnemonics 2020” on February 11, 2020. On this occasion, Prof. Avinashi Kapoor (Head Dept. of Electronic Science, University of Delhi) delivered a motivational lecture. Various technical and cultural events like Circuit Making Competition, Debate Competition on “Artificial Intelligence”, Harry Potter Quiz, Alumni Meet, Photography Competition “Instrugraphy”, Open Mic Competition were also organized during the festival. The event witnessed huge participation from students of the college as well as other colleges from all over Delhi. During this festival, some of the very bright and talented alumni of the Department were also present and shared their experiences among the students. One of the Alumni of the department, Mr. Manish has recently joined leading Integrated Device Manufacturer ST Microelectronics.

DEPARTMENT OF MICROBIOLOGY

An institution's alumni are the reflection of its past, representation of its present and a link to its future. Alumni are a treasure of knowledge, wisdom, and experiences for any institution. To strengthen links with our alumni, the department for the first time organized students' interaction with distinguished alumni over the course of the academic year 2019-20, through a series of lectures on the theme 'Careers in Microbiology and Beyond'. Our alumni were invited to deliver short talks to current students and discuss various avenues for career development. This initiative has enabled the department to further strengthen its ties with the alumni from around the world, who have been eagerly sharing their experiences and guiding undergraduates on preparing for further studies or building profiles suitable for industry placements.





This lecture series was initiated on October 23, 2019. Our distinguished alumni, Mrs. Ruchi Bhatnagar (Batch 2007-10), Mr. Udit Malik (Batch 2008-11), Dr. Sanjana Mukherjee (Batch 2009-12), Dr. Sneha Chatterjee (Batch 2010-13), Mr. Shubham Sharma (Batch 2013-16) and Ms. Pooja Gupta (Batch 2015-18) and spoke to the students and interacted with them, encouraging them to plan and think carefully about their transition after graduation. Students found these exchanges insightful and informative. The lecture series culminated with an Alumni Meet on February 15, 2020, attended by twenty-five alumni who came in from Delhi and even outstation to meet the faculty and our present batch of students, who presented a short cultural program to welcome them. The function was presided over by our Principal who presented the alumni with a memento on behalf of the Bhaskaracharya family.

We have also initiated a Resource Sharing Program and to support that, our alumni will donate books and other reference material to our department repository for the benefit of ongoing batches of the students

DEPARTMENT OF PHYSICS

Physics being one of the most sought after courses in Science, the department strives to offer the best exposure and facilities to the students so that they become competent enough to pursue their academic interests in the leading research institutes, Students of the Department of Physics have been part of various programs and lectures during the present academic year. These include a visit to CSIR-NPL on September 30, 2019, to update their knowledge about new technologies and sophisticated analytical pieces of equipment /labs/facilities like Globe/Wall of SI units, PPMS/Superconductivity, Micro Raman, Bharatiya Nirdeshak Dravya, Sound Transmission Lab, NPL Film show, etc. Department organised a visit to Vigyan Samagan at National Science Centre, New Delhi for the first multi-venue Mega-Science Exhibition on February 11th -13th,2020 . To celebrate National Science Day, a visit to IUAC, New Delhi for a one-day college-level workshop was organised on February 28, 2020. Departmental annual fest “EPISTEME” was organised by QUBIT, the society of the Department of Physics on March 7th-8th, 2019 and February 17th-18th,2020. The Festival in its inauguration ceremony had lectures by two eminent researchers Dr. S.K. Dhaka and Dr, Sanjiv Kumar. Various academic and cultural events were organized during the Festival Physics cipher, Quiz on Physics in pop culture, debate, etc. An alumni meet was also organized in this festival.





Students of the department have represented the college and secured various positions at different platforms throughout the academic year. One of our students, Ram Vikas Mishra, of B.Sc. (Hons.) Physics 1st Year secured the first position in the event of Tech Anveshan (Project Exhibition) on October 4th, 2019 organized by Silizium at Deen Dayal Upadhyaya College, University of Delhi. Himani, of 3rd Year, represented the college in 100 m race at Polo grounds Delhi University and was a part of table tennis team at Delhi University tournament. Sudhish, Sachin and Pawan of 3rd year were a part of the college team in cricket tournament held in various colleges and Sudhish was a part of college Badminton team for a tournament held in Delhi University and along with Pawan was a part of college volleyball team for various tournaments in colleges of Delhi University. Sachin performed street play in IIT Delhi, NBRC, UDAAN and various colleges of the University of Delhi. Pawan also represented the college in volleyball and performed street play and qualified prelims at IIT Delhi (UDAAN) and various other colleges of the University of Delhi. Kunal secured second, third and fourth positions in Stand-up Comedy Competitions in Daulat Ram College, Gargi College and Kirori Mal College respectively. Overall our department believes in the principle "All work and No play makes Jack a dull boy".

DEPARTMENT OF POLYMER SCIENCE

Department of Polymer Science organized a visit of B Sc 2nd Year students & faculty members to Plastic Recycling Industry (Nidhi Enterprises) at Bawana, Delhi on February 18, 2020. A visit to the Department of Textile and Fibre Engineering, IIT Delhi was also organized by the department on February 6, 2020, for third-year students and faculty. Annual Tech Festival Cross-Link 2020 was organized on 3rd and 4th February 2020. Students and faculty took Swachhta Pledge on January 16, 2020.



DEPARTMENT OF ZOOLOGY

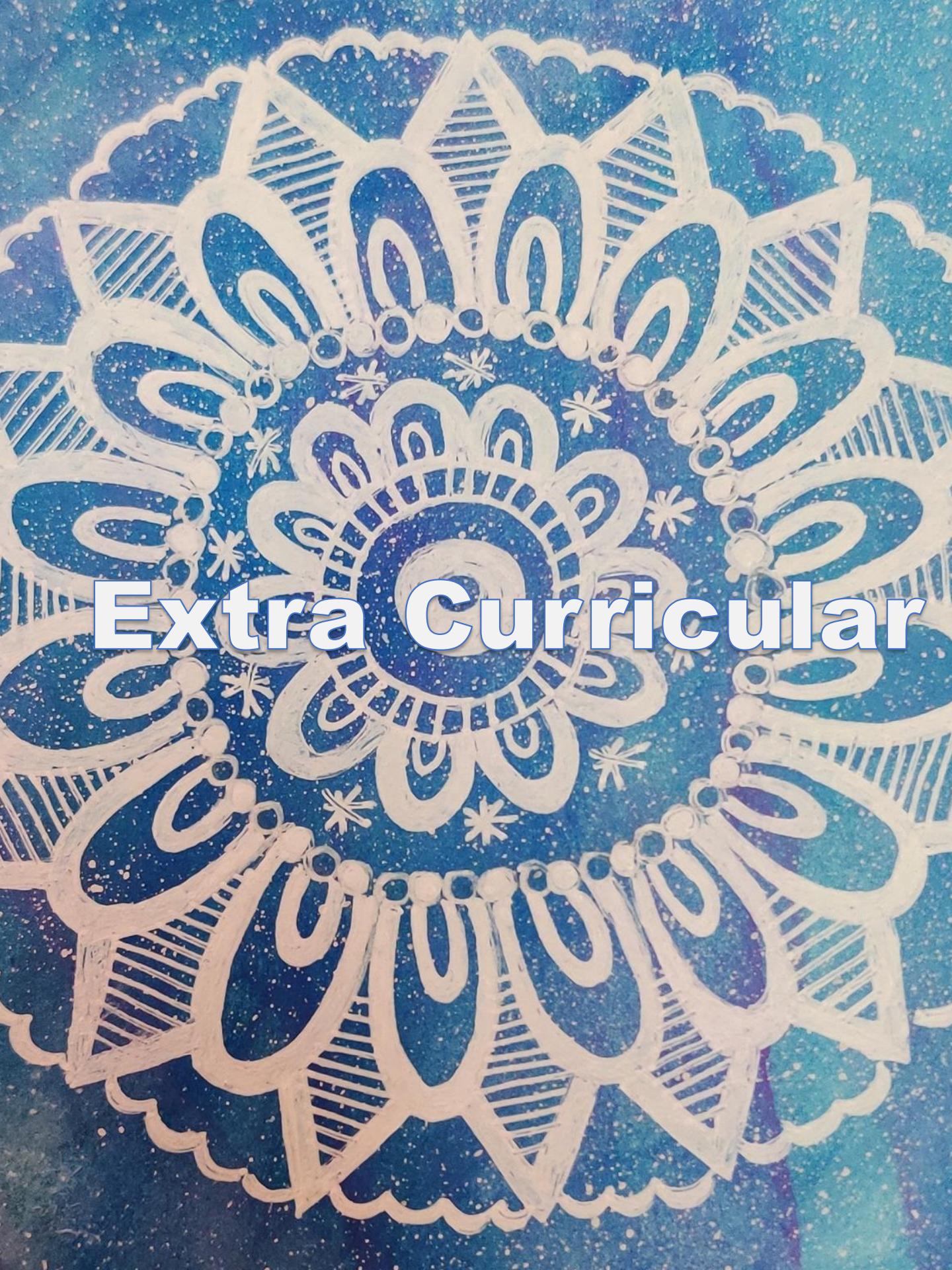
The Department of Zoology of Bhaskaracharya College of Applied Sciences, established in the academic session of 2017-18, has attained its full-strength of students and faculty for the first time in the current academic session of 2019-2020. The Department has carried out several academic and extracurricular activities in this session. One-day workshops on “Reproductive Biology” and “Immunology” were conducted on February 14, 2020 and September 26, 2019, respectively, in collaboration with the research laboratory of Prof. Umesh Rai at Department of Zoology, University of Delhi to provide hands-on practical knowledge of these discipline-specific electives to the undergraduates of the third year. The experience was one of its kind where students learned various scientific techniques that are frequently applied in today's research world. Multiple visits to educational institutes and centres were also conducted. Students were taken to Central Silk board Regional Sericultural Research Station, Dehradun on March 12, 2019 and Department of Entomology, Indian Agricultural Research Institute, Delhi on March 05, 2020 to acquaint them with various insects and their life cycles. These visits provided valuable information to the students about various agro-based cultivations such as sericulture, apiculture, etc., which will help them in their future entrepreneurial pursuits. Zoology is all about understanding animals and it can be best done outside the class. To fulfill this requirement, students were taken to Madhav National Park, Shivpuri, Madhya Pradesh on September 15, 2019 and Animal House facility of Department of Zoology, University of Delhi on March 15, 2019. These visits helped students to gain experience in animal handling, understanding the lifestyle and maintenance of animals in wild and in the laboratory, and also, the significance of maintaining an ecological balance in nature.





The Department believes that undergraduate students must be prepared in such a way that they are not only academically strong but are also ready to face this challenging world and are confident in expressing themselves. To nurture this, the students and faculty of the Department actively took part in “आरोहण: RCB Open Day”, an outreach program on National Science Day held in Regional Centre for Biotechnology, Faridabad on February 28, 2020. In this event, Mr. Pawan Kumar Gola of B.Sc (H) Zoology II year secured first prize in sketching event. The Department also organized a lecture entitled “The dilemma of choosing a career” on March 04, 2020 to familiarize students with the career prospects after graduation. The lecture was delivered by Mr. Ratnesh Roy (Founder, Target Success Institute) and was attended by several students and faculties of the college.

The students of the Department have also shown their potential in various academic and extracurricular activities. Six students of the Department successfully completed their summer internship in various research laboratories of Department of Zoology and Department of Anthropology, University of Delhi. In addition, Mr. Lokesh Kumar of B.Sc (H) Zoology I year secured the first position in Inter-departmental Kabaddi Competition on January 23, 2020 and Mr. Saurav of B.Sc (H) Zoology II year secured the first position in Cricket competition organized by the Department of Physics, BCAS on March 07-08, 2019. It is worth mentioning that Ms. Sabina of B.Sc (H) Zoology II year got appointed as PRT under Kendriya Vidyalaya Sangathan (Academic pay scale level 6) on January 17, 2020. Teaching filled with fun is the best way to create interest in students for the subject. In lieu, the Department organized its annual zoological festival ‘ZOOSANGAM’ on February 07, 2020 under the umbrella of zoological society ‘ERANKO’. The festival conducted various scientific as well as fun-filled activities and witnessed the participation of students from other departments and other colleges. Overall, the academic session of 2019-2020 was quite eventful and productive.



Extra Curricular



AKIRITI- Modern & Fine Arts Club

Convener-Dr. Prem Lata Meena

Akiriti, the fine arts society redefines the beauty of the art. It brings down the expression of happiness, sorrows, freedom, uniqueness, culture and most importantly thoughts on the piece of paper. Akiriti had organized poster making competition under the aegis of IQAC on “Historical episode of rebellion by Indian soldiers/freedom fighters”. This competition was held on the occasion of 73rd Independence to enlighten the spirit and soul of our brave martyrs. Another poster making competition was organised on the topic “Matdaanhamara Adhikaar Hamara Kartavya”. This competition helped draw people's attention towards their rights to integrity, to democracy, to choose and ultimately to vote. Shubham Singh (B.Sc(H) Polymer Science-3rd year) had participated in Acrylica2k19, an annual art fest of Shivaji College, DU held on 24th Oct. 2019 and secured 1st POSITION in SKETCHWALK and Priyanka (B.Sc (H) Chemistry- 3rd year) secured 1st POSITION in DOODLING CATEGORY. Shiva (B.Sc(H) Polymer Science- 1st year) had participated in Abhivyakti 2k19, an annual art fest of DTU held on 6th Nov. 2019 and secured 1st POSITION in Craft Modeling Competition. During Srijan-2020, Monochrome Painting Competition, Plate - o – Rama and Sketch- o – Mania competitions were organized on 25-26th Feb. 2020.



Astronomy Club

Convener: Ms. Gurkiran Kaur

“Universe- A mystery yet to unveil”. Who hasn’t marveled at the celestial wonders and experienced a sense of awe at being a part of such an infinite expanse? Astronomy club seeks to build on this fascination and brings innovation and passion to its vision of spreading the awareness and knowledge of astronomy and space sciences to the students.

The Club aims to arouse the inquisitiveness among students for studying and finding the answers to the various unresolved problems of mysterious Universe by organizing various exciting events like Quiz Competition, Educational trips, lectures, documentary movies, etc. every year.

Astronomy club organized Quiz Competition on the topic “Marvel: X-MEN” during Episteme 2020, the festival of Physics Department on February 17, 2020. Students from various departments participated with great zeal and enthusiasm in the event.



Astronomy Club also organized a Debate competition on the topic “Was this universe created or it always existed this way?” during Srijan 2020 on February 25, 2020. Students from various colleges participated in the event.



Clickerati -The Photography Society

Convener: Dr. Umesh Kumar

"Photography is the simplest thing in the world, but it is incredibly complicated to make it really work." - Martin Parr

Since photography being the only means of preserving the present moments and cherishing them later in life, the person who's performing this immense task should have a special title for doing this and that's "CLICKERATI".

Clickerati, the Photography Society, inspires the students and its members to capture the beauty of the world we live in. Being one of the most active society of the college, it regularly organizes workshops and photowalks around the city with the motive to learn something new every time. On 8th November 2019, the photography society, CLICKERATI of the college organized an open inter-college photography event on the theme 'Texture' wherein colleges from all over Delhi University participated. First prize was won by Shubham Verma of College of Vocational Studies and Second prize by Harshita Sharma of BCAS.



First prize



Second prize

Another on the spot photography contest was also organised by the society on the theme 'Upside Down' that received a total entry of 18 participants.

The first prize was won by Kabir Singh of Swami Shradhanand College and second prize by Shubham Verma of College of Vocational Studies. The club also got a column in **Dainik Jagran** newspaper.



First prize



Second prize

Confianza-The Debating Society

Convenor: Dr. Anjali



Confianza is the debating society of the college, which provides an innovative platform to students to present their views and exquisitely explain their perspectives on the current political and social scenarios in the country as well as world. Through this club we try to inculcate democratic enthusiasm in to the students and make them familiar with the various styles of debating. An intra-college debate competition was organised by the debating society to ignite the vigilante theme in students and evoke their active participation in promoting vigilance awareness among their peers and society as a whole. The debate was held on the topic "Is the current public participation playing a role in eradicating corruption and promoting integrity?" on 31st January, 2020. The debate witnessed enthusiastic participation from all the departments of college and covered the topics such as CAA, digital arenas, Right to information etc. proving their vigilante values.



Darpan: The Dramatics Club

Convener: Mr. Rakesh

"Art is not always about pretty things, it's about who we are, what happened to us, and how our lives are affected."



Darpan tries to bring forth this face of art to life using theatre. We work to present the stickling realities of life in the forefront of your head. We try to paint a picture that is presentable to your eyes with unravelling them of gruesome truths of all times because we believe 'well performed well received'. Darpan, the dramatics society of the college, works in between the drapes of theatre. We perform in three styles; street play or nukkad natak; stage play and mono act. We have performed on numerous issues like swatchta, Kashmiri pandit migration, women suppression, homosexuality and many more. We have worked in many different genres like comic, tragic, patriotism, romance and so on. We use theatre to mirror the society of the day, how people think about it and what is the ground reality.



ECO CLUB

Convener : Dr. Franky Varah

Eco Club of the college is a very active society in creating environmental consciousness amongst the future generation. Eco Club is group of teachers and students dedicated to spread awareness about good environmental practices. The main objectives of Eco Club include:

- To make students understand environment and environmental problems.
- To provide environmental education opportunities for students.
- To bring students in to direct contact with the environmental problems being faced by the society they live in and make them think of solutions.
- To involve students in action based programmes related to environment in their surroundings.

The Club organised a “No Use of Fire Crackers Campaign” in the college premises on 23rd October, 2019. Students very enthusiastically participated in campaign and chanted the same while they marched around the college campus. The Eco Club in collaboration with Gandhian Study centre organised a Poster Making Competition on the theme of ‘plastic free India on 1st October, 2019 in the college. In this competition various posters on the concerned theme were prepared and presented by the students of college.



On the Pt. Deendayal Upadhyayji's 103rd Birth Anniversary, the members of Eco Club and BEST participated on "Circular Economy on Plastic Waste and Livelihood Opportunities" at NDMC, Connaught Place, New Delhi on 25th September, 2019. Student of the club participated in the "International Ozone Day" celebration held at Delhi Secretarial on 16th September, 2019 and received a cash prize of Rs.2000/- (Nukkad Natak) and Rs.1000/-(paper presentation). On 13th September, 2019, the Eco-Club and BEST organized a "Plastic Free Campaign" in the college premises to promote an environment-friendly campus. On 28th August, 2019, the Eco-Club and BEST organised an "Environmental Awareness Campaign" at Govt. Co-Ed. School near the college.



Film Club

Convener: Dr Shailja Singh

Films encourage ideas and social commentary within communities. They have the power to express a culture's ideals and shape them. Art, especially film, is important because it gives us the ability to form lasting human connections by letting us share our experiences with each other. It can help us to better understand our own lives, the lives of those around us and even how our society and culture operate. The BCAS Film Club was constituted with the aim of entertaining, educating and encouraging the students time to time with the screening of inspirational films related to various aspects like academic excellence, national pride, science and technology and wildlife etc. The club has been actively involved in encouraging the students to understand and learn the essence of cinematography and film making. Members of the club are actively involved in making documentaries and short films for various activities happening in the college throughout the year. As apart a of the tradition, film club organized a movie screening of the movies 'GANDHI' and 'MISSION MANGAL'. The objective behind this screening was not only to refresh the students but also light the fire of patriotism and inculcate the sense of national pride.



Lit cultra :- The Literary club

Convener: Dr. Satyawati

In the era of popular liberalization, expression through rhythmic flow of words becomes a powerful weapon. Keeping in mind the importance of tradition of reciting poem which can forge a lot of social awareness, the literary club organised an event "Kavi ki kalpanaa", where students gave humorous, witty and rational performances by thinking out of the box. The students had their own self made poems both in Hindi and English, checked a day before the event for plagiarism. The expressions and energy of young students was strong enough to blow minds of spectators and the judges equally. Black out poetry enables to unleash the hidden taste for poetry. To find the jems of this craft the literary club organised a "black out poetry competition". In this event students were provided with newspaper and magazine papers from which after blacking out the portions they created their poetry of different highs, which in itself came out as a refined form of craft. A great number of poetry driven interested students enthusiastically participated in the competition and made this event successful.

The club organized a "literary quiz". The event was held with "in-quiz-itive "students who were divided into several teams. The club in collaboration with the gandhian study center co-organised a bilingual essay writing competition on "Mother nature has enough for man's need but not for man's greed" and "My dream India". The event undoubtedly proved to be one of the productive and opinionated competitions.



Moksha: The Music Club

Convener: Dr. Shubhra

The true beauty of music is that it connects people. Moksha, the musical society of the college provides students a platform to express the power of their thoughts and issues of interest in a melodious and lyrical accent by organising several inter and intra-college activities round the year.

Music club participated in Independence and Republic Day Celebration where students sang patriotic songs as attribute to the slain soldiers. They also dedicated a song to the girl child. Saurabh Kishor (Department of Computer Science) was shortlisted for M.A.D'2.0 (music, art and dance season 2) one of the India's Dancing and singing competition held on 25th August 2019. An Intra college competition titled 'Bollywood Antakshri' was organized on 19th September 2019 where students enthusiastically participated and showcased their talent. The winners and runner-ups Manish Kumar (Microbiology Department) and Yogesh Kumar (Computer Science Department) respectively were duly felicitated with certificates and cash prizes. Students of the music club participated in the International summit on women in STEM Visualising the Future: New Skylines organised by ICGEB New Delhi on 23-24 January 2020. Their performance was well appreciated and they were duly felicitated.



National security Guard (NSG) Mock Drill

ECA Committee (Convener: Mr. Ramesh Kumar)



With rising threat of terror strikes across major cities in India, the elite NSG team had conducted mock drill on 28th February 2020 at 8:00 PM in BCAS premises. The team was fully trained, equipped and keeping readiness every time in any adverse situation and same was capable of swiftly and effectively tackling combating terrorism, counter hijacking task on land, sea & air, bomb disposal and hostages rescue mission etc.

The team was led by colonel and his commandos who demonstrated its preparedness to tackle any exigency in the affected region. It was the first time that such a drill was conducted in this college. Many commandos with bomb squad and snipers participated under the aegis of Principal Dr. Balaran Pani; Assistant Prof. Mr. Ramesh Kumar and other staff members with students of college. Overall this was a great experience for every one present there to witness such an act of bravery.



Rage: The Dance Club

Convener: Dr. Alivia Roy

The year 2019-2020 was a very busy and eventful one for RAGE team members. It began with the Independence Day celebrations in college wherein RAGE presented three dance performances- group, trio and a solo dance. The indefatigable efforts of our brave-hearted Indian soldiers in protecting and serving our Nation were saluted through dance. To rekindle the spirit of patriotism in all minds and hearts, RAGE had organized two group dances and one solo dance on the occasion of Republic day celebrations. The performances were mesmerizing and appreciated by the entire audience. In our annual cultural fest Srijan 2020, RAGE had organized two types of inter-college competitions namely, Western Go- group dance and Flight of feet-solo dance. Both the events witnessed appreciable participation from other colleges and their energy and enthusiasm was contagious. Apart from hosting these competitions RAGE members also performed on several dance numbers that enthralled the audience. Our college dance team has also participated and won in group dance competitions hosted by various institutions in and around Delhi such as Indian Institute of Technology, Fore school of Management, Apeejay Institute of Mass Communication and Dream Launcher Dance Academy. In a nutshell, RAGE team boasts of a very energetic and talented group of students who put their best foot forward the entire year and came out with flying colours.



Republic Day Celebration

ECA Committee (Convener: Mr. Ramesh Kumar)



ECA committee organized Republic Day celebrations on 24th January, 2020. Dr. Balaram Pani (Principal, BCAS) hoisted the flag and boosted the students with his encouraging words. Students performed solo & group singing and dancing on patriotic themes, and patriotic play in this celebration. There was an atmosphere of passion, energy and patriotism around the campus.



SRIJAN 2020

ECA Committee (Convener: Mr. Ramesh Kumar)



ECA committee organized the annual cultural festival SRIJAN 2020 dated 25th-26th February 2020. In the inaugural ceremony chief guest Smt. Bhavna Gaur (Member of the Delhi Legislative Assembly, Palam) boosted the spirit of the students with his encouraging words. The fest hosted various events and competitions such as singing, dancing, kavi sammelan, debate, photography, fashion shows, street play, quiz, battle of bands etc. Numerous students from different colleges of Delhi University participated in this festival with great enthusiasm. Stand up comedian Anubhave Singh Bassi gave his performance on the Star Night of SRIJAN 2020. "Awaan Band" also gave his performance on the Star Night of SRIJAN 2020. There was an atmosphere of passion and energy around the campus. SRIJAN 2020 was also the witness of "Sparkling night" with DJ Karan, which forced people to snort.



Yoga Club

Convener: Dr. Kapil Roy

Yoga is an invaluable gift of ancient Indian tradition which embodies unity of mind and body; thought and action; harmony between man and nature and a holistic approach to health and well-being.

Yoga Club conducted a seminar on 'Resolution for Revolution' under the aegis of IQAC. H.G. Amogh Lila Prabhu, Vice President Shri Shri Rukmani Dwarkadheesh Temple, Dwarka was invited as the speaker, who guided our students how to keep resolutions more strongly. 'Yoga Club' and NSS Cell celebrated '**5th International Yoga Day**' under the aegis of IQAC, in association with People's foundation with great enthusiasm. More than 40 people including students, teaching faculty, non-teaching staff members, people from neighbouring societies and guests, actively and enthusiastically participated which inspired them to make yoga as a part of their regular schedule. The two-hour long Yoga session commenced by Yogacharya '**Ms. Kanika Verma**' where she demonstrated a myriad of yogasanas, such as, 'Taadaasan', 'Vajrasana', 'Makaarasana', 'Shashankasan', 'Utarasan', 'Kandrasan', 'Shavaasana' etc. It was fused with Indian classical music by **VYOM group** headed by Pt. Shailendra Mishra which rejuvenated the souls and left a positive effect on mind, body and soul.

January 13, 2020



Organized a seminar on 'Resolution for Revolution' on January 13, 2020 by H. G. Amogh Lila Prabhu, Vice President, Shri Shri Rukmani Dwarkadheesh Temple (ISKCON), Dwarka

June 21, 2019



Outreach Activity: 'Yoga Club' and NSS Cell celebrated '**5th International Yoga Day**' under the aegis of IQAC, in association with People's foundation on June 21, 2019 in the college premises.



Cells & Committees



ANTI TOBACCO CELL

A lecture was organized by the Anti-Tobacco Cell on the topic entitled "My Delhi, Addiction Free Delhi" on 27th August, 2019 in AV Room from 10:00 am. The invited speakers were Dr. Ram Mudholkar (ExPresident of DuPont), B. K. Vivek Pahwa (M.A., P.G. in value education & Spirituality, MBA associated with ministry of Home Affairs). The program was inaugurated by Dr. Balaram Pani (Principal, BCAS). Around 50-60 students and faculty were present in the AV room. In addition to the lecture, AntiTobacco Pledge was also taken by all. It was a very informative lecture for all the audience present there.

Anti-tobacco cell of our college aims to make college premises free from tobacco and smoking. In order to achieve our goal a two-day lecture series on "ADDICTION FREE INDIA" was organized along with Bhaktivinoda ISKCON, Delhi on 3rd and 4th October 2019. On 3rd October, the lecture was inaugurated by traditional lamp lighting by our guest, bursar and all the faculty members present there. Dr. Anil Barak welcomed our guest H.G. Toshan Nimai Das by offering a sapling to him followed by a formal address by the Bursar of our college Dr. Siddharth Sirohi. H.G. Toshan Nimai Das delivered a very informative and motivational speech. He shared his views on spiritual knowledge and motivated the audience to lead a good life and highlighted the path to rehab from various kinds of addiction. At last the closing remarks were given by Dr. Ranjeet Singh Thakur, Librarian of our college. On 4th October, the event started with Saraswati Vandana by one of our volunteers followed by a formal welcoming of our guest by Dr. Satyam Dwivedi.

Dr. Krishna Dutt (Convener)



ALUMNI COMMITTEE

The Alumni committee organizes Alumni meets every year. The purpose is to create bonding between college and Alumni. This year Alumni Committee organized Annual Alumni Meet-2019 in the month of February 2020. A total of 106 alumni from different courses participated in the annual alumni meet. There were 6 alumni from B.Sc.(Hons) Biomedical Science, 11 from B.Sc.(Hons) Computer science, 03 from B.Sc.(Hons)Electronics, 29 from B.Sc.(Hons) Food-Technology, 05 from B.Sc.(Hons) Instrumentation, 22 from B.Sc.(Hons) Microbiology, 10 from B.Sc. (Hons) Physics and 20 from B.Sc. (Hons) Polymer Science. All the alumni who had participated in the meet were felicitated. The Alumni remembered sweet and sour memories of their college time during their interaction.

Dr. Vandana Batra (Convener)



CAREER COUNSELLING CELL

The Career Counselling Cell has been constituted in college to provide guidance and motivation to students in exploring various career avenues through lectures and seminars by inviting eminent personalities from academia, industries and renowned organizations. This year, a lecture on 'Career options after graduation and how to build a strong profile' was organized on 29th January, 2020. The lecture was delivered by Mr. Aditya Bhardwaj, from IMS Institute, Dwarka.



Ms. Shweta Gupta (Convener)



GANDHIAN STUDY CENTRE

The future depends on what we do in the present.

~Mahatma Gandhi

The Gandhian study center of Bhaskaracharya College of Applied Sciences has organized innumerable events during the session of 2019-20 under Gandhi 150 to inculcate Gandhian values among the students both at college and Inter collegiate level

The study center organized a SLOGAN WRITING COMPETITION on 1st October 2019 on the topic 'Swachh Bharat, Samridh Bharat' which witnessed active participation from the student.

Gandhian Study Centre in collaboration with Eco Club organized a PAINTING COMPETITION on 'Ek Kadam Swachhata Ki Aur- plastic free emission' to strengthen our resolve towards the Swachh Bharat Abhiya.

On 2nd October 2019, our active volunteers along with the convener attended an event at Gandhi Bhawan, Delhi University to celebrate 150 years of Gandhi Jayanti. The college along with the convener was appreciated for spreading the ideas of Gandhiji amongst students.

In order to inspire the students and the staff of the college from the life of our Bapu, Film 'Gandhi' was screened on the 3rd October 2019 along with the Film Club.

- On 24th January 2020, volunteers of The Gandhian Study Centre presented a Skit based on the topic "Hamare Sapno ka bharat" on the occasion of Republic Day Celebrations in our College. The students worked hard in order to showcase the dream India envisaged by Gandhiji.
- On 31st January 2020, the Centre organized a short poem writing competition "HAIKU" in both Hindi and English on Gandhiji's values.
- On 4th February 2020, an ESSAY WRITING competition was organized in association with the Literary Club of our college on the topics 'Mere Sapno Ka Bharat' and 'Nature has enough for Man's needs but not for his greed'. The student turnout was quite large making the event a resounding success.
- On 5th February 2020, the Centre paid a tribute to Gandhi by organizing a recital of his favorite Bhajans. The event Bhajnavali titled 'Bapu Ke Priye Bhajan' was organized by the Gandhian Study Centre of our College in association with the Music society. The audience was completely mesmerized by the melodious Bhajans
- Keeping in mind that Gandhiji was a nature curist, on 5th February 2020, a Biotic Talk was also organized on the topic: "Mother Nature: Gateway to Health and Happiness". The talk was conducted by Dr. Salila Tewari, an internationally renowned naturopath, who has healed thousands of incurable patients from the world over. Her magic touch has earned her accolades from several celebrities and appointment as the former personal physician of Late Shri Atal Bihari Vajpayee Ji, the former Prime Minister of India. Dr. Salila enlightened the audience about the various ways through which the most complex diseases can be cured just by the right approach towards nature and maintaining a healthy routine and lifestyle.
- In this pandemic crisis, e-material was developed and shared on various platforms in order to motivate people to go back to nature. A list of simple actions was prepared like doing regular exercise, eating natural food, resting and relaxing, staying positive, etc.

Dr. Shivani G. Varmani (Convener)



NSS CELL

The **National Service Scheme (NSS)** is an Indian government-sponsored public service program conducted by the Ministry of Youth Affairs and Sports of the Government of India. It aims at developing student's personality through community service. NSS is a voluntary association of young people in College working for a campus-community linkage. The Cell of the college is very active and strives for developing social and civic responsibility and national harmony among students.

The cell of the college had a triumphant year, ameliorating the environment around us by organizing a plethora of activities. The cell of the college in association with the "Yoga Club" and "People Foundation" organized a yoga Workshop on "Holistic Health & Refreshing Mind Space". The cell had a clear vision of making the society clean and healthy this year and the mission started with a Cleanliness Drive under the Swachh Bharat Mission from 22nd August, 2019 to 4th September, 2019. The members also undertook cleaning of a nearby old age home. Emphasizing its aim on a clean environment, the cell celebrated the 50th NSS day on 24th September, 2019 under the theme of 'Plastic Pollution'. Various interactive activities like poster making and slogan making competitions on the same theme were also organized on this special day. The expedition did not stop there, as the cell organized a "Plog Run" on 4th October in the wake of nationwide celebration of Mahatma Gandhi's 150th Birth Anniversary this year where students enthusiastically participated in picking up waste while jogging their way around the college campus. It was followed by a door to door plastic collection drive in the nearby societies by picking up and disposing off non-biodegradable waste from the surroundings.

The cell with its humanitarian approach also laid stress on enlightening common people's mindset and spreading awareness among them by arranging a lot of workshops and camps. Firstly, the cell organized a Voter Verification Camp from 3rd to 5th October, 2019. Taking into consideration the importance of awareness in the society and our perspective towards different genders, a lecture on "Gender Sensitization" was organized by the cell of the college in association with the Gender Sensitization Committee on 18th October 2019. The lecture on this sensitive issue was addressed by Mr. Praveen, an advocate in Delhi High Court. A lecture on "Passport Seva" was organized by the Cell on 23rd October 2019. It aimed at the importance of having one's passport and provided the students with a track and procedure to follow for the same.

This year, the cell also focused on improving the health of the students. Under this agenda, the Cell organized a "POSHAN (Prime Minister Overarching Scheme for Holistic Nourishment) Abhiyan " on 24th September 2019. It was a health awareness campaign organized by the NSS cell in collaboration with the Integrated District Health Society (IDHS). The volunteers of Cell celebrated Diwali with the students of MCD school near college and distributed dry snacks to them. Lastly for the indigent, the cell organized a clothes for the needy distribution camp near Palam flyover to protect them from the chilling winds of Delhi. Students from different departments of the college willing participated in the camp.

The cell of our college has startlingly risen as a great contributor to the society by actively organizing various camps, lectures and spreading awareness in the society throughout the year.

Dr. Neeru Sharma (Programme Officer)



VIVEKANAND VICHAR MANCH

Vivekananda Vichar Manch of the college organized the celebration of 'Kargil Vijay Diwas' on 2nd August 2019. A tribute was paid to the valiant Indian Martyrs of the 1999 Kargil War by the students, teachers and non-teaching staff of the college near Saraswati Idol. The program also included a lecture on "Role of Youth in New India" by distinguished social worker Shri Srinivas. The lecture highlighted the importance of understanding India and all its intricacies and enlightened the students about their responsibilities towards the nation. The speaker underlined the importance of the youth who are the torchbearers of the nation and encouraged them to develop the mindset of Nation First. Birthday of Swami Vivekanand ji is celebrated as National Youth Day. This year Vivekanand Vichar Manch and BSA celebrated "Yuva Diwas" on 14th January 2020. Commander V.K. Jaitley was the chief guest of the function. Impressive speech of commander V.K. Jaitley inspired many students and staff of the college to become disciplined, hardworking and responsible citizens of the country.

Manu Kataria(Convener)



WOMEN DEVELOPMENT CELL

“There is no tool for development more effective than the empowerment of women.”

- Kofi Annan

Women Development Cell of BCAS is a vibrant and incessantly active collaboration of students, faculty, and staff; endeavoring to create a more inclusive, tolerant and gender sensitized community within campus as well as in society. It believes in strengthening students by creating awareness about sociopolitical, cultural, and legal perspectives through talks, workshops and symposia. Through its myriad activities - slogan writing, poster-making, Rangoli making, debates, self-defense training courses - the Cell sensitizes and educates female students in a holistic manner. Our past few programs and events primarily aimed at creating awareness about issues mentioned above still prevailing in our society. Given below are the highlights of the activities organized by Women Development Cell:

- Outreach Activity: Women Development Cell, conducted a 10 days Self Defense Training program from 2nd to 12th Jul 2018 for girls and women of neighboring areas.
- A workshop in collaboration with Delhi Police on 'Himmat Plus App' was conducted on 14th August 2018 for women safety.
- After the tremendous success of the outreach activity, a similar 10 days Self Defense Training program was organized for girl students of our college from 1st to 12th October 2018.
- A one-day workshop on Women Empowerment was organized in collaboration with "UDAAN" on 14th February 2019. Mr. Rashmi Ranjan, founder of "UDAAN", a trainer as well as a management consultant was invited as the trainer for the workshop. Various techniques on developing self belief as well as for stress management were discussed and the basics of entrepreneurship and awareness associated with legal issues broadened the horizons of our students as a multidisciplinary approach for the overall personality development.
- On 8th March 2019, the cell celebrated International Women's Day 'Nari Utsav' for the first time to rejoice womanhood. The chief guest on the occasion was Prof. Sushma Yadav, Vice Chancellor, Bhagat Phool Singh Mahila Vishwavidyalaya. The Cell invited many eminent personalities such as, Dr. Suman Govil (former Senior advisor, Department of Biotechnology), Dr. Sunaina Kanojia (OSD, Institute of Cyber Security and Law) and Ms. Archana Pathak Dave (Advocate on record Supreme Court). The program also included a number of intercollegiate competitions for students such as debate, poster making, Rangoli making, self-composed poem recitation and slogan writing competition where students showcased their knowledge, talents, values, and skills. Large number of students from various colleges enthusiastically participated in the events. The program was a grand success.
- On 8th March 2019, the cell also organized a 'Breast Cancer awareness' signature campaign in collaboration with the Department of Microbiology.
- On 12th March 2019, a lecture was organized on 'Career Prospects in Healthcare Industry' by Dr. Divya Aggarwal, International Institute of Health Management and Research (IIHMR).
- Outreach Activity: Women Development Cell, conducted a 10 days Self Defense Training program from 2nd to 12th Jul 2019 for girls and women of neighboring areas in collaboration with Delhi Police at our college lawns.
- On 6th Nov 2019, WDC celebrated Vigilance Awareness week in collaboration with NPL, CSIR by organizing a lecture on 'Integrity: A Way of Life' by Dr. Mahesh followed by on-the spot quiz as well as poster competition.
- On 10th Jan 2020, a workshop was organized on 'Role of Women in Healthcare Industry' in collaboration with (IIHMR).
- On 27th Jan 2020, a workshop was organized on 'What after Graduation' in collaboration with Electronics society 'SPARKS

• Dr. Geeta Mongia(Convener)



SPORTS COMMITTEE

The College organized the 6th Bhaskaracharya Inter College Cricket Tournament from January 9th to 17th, 2020. Six teams from University of Delhi viz. Venkateshwara, Aryabhata, Shyamlal, SGND, Khalsa, KMC and BCAS colleges participated in the tournament. Shyamlal College was the winner and Venkateshwara College was runner up of the tournament.



Further, Annual Sports Day was celebrated in the college on 23th January, 2020 in the sports ground. The Chief Guest was Dr. Dhananjoy Shaw, Principal, Indira Gandhi Institute of Physical Education and Sports Sciences, University of Delhi and Guest of Honor was Dr. Gulshan (DSW) from Indraprastha University, New Delhi.

Students Achievements:

- Shreya Sharma of B.Sc. (H) 3rd year, Department of Microbiology won Bronze Medal in Inter College Judo (Women) Championship 2019-20 organized by University of Delhi held at Multipurpose Hall on 5th & 6th November 2019.
- Vikas Kumar of B.Sc. (H) 2nd year, Department of Physics won Bronze Medal in National Football Championship (5th Small Side) 2019-20 held at Goa from 30th December 2019 to 1st January 2020.



Star College Scheme



As per the DBT norms, the scheme is smoothly conducted by various team leaders which are as mentioned below.

- 1. Dr Balaram Pani, Principal, Chairman (Star College Scheme)**
- 2. Dr Anita Sondhi, Coordinator, Star College Scheme**
- 3. Dr Anita Sondhi, Biochemistry Department Coordinator**
- 5. Dr Rizwana, Food Technology Department Coordinator**
- 4. Dr Uma Dhawan, Biomedical Science Department Coordinator**
- 5. Dr Pawas Goswami, Microbiology Department Coordinator**

Under the ongoing Star College Scheme of Department of Biotechnology in our college, several activities are planned by the participating departments. The foremost aim of the scheme is to strengthen science education and research at the undergraduate level. Keeping the objectives in mind, activities were conducted at the respective department levels and college at large. Many activities were conducted during 2019-2020 which include invited talks of eminent scientists from Academia and Industry, Seminars, Hands-on training and workshops were conducted to enhance interest in science.

The mandate of the scheme is also to have collaborations between the various departments and foster an interaction between faculty and students. The students were also given experiential learning through visits to various industries, institutes and research laboratories. These visits helps them to understand applications of science in other institutes and also familiarizes them with various career options into their chosen scientific fields. Few of the the activities are listed below:

- ❖ Two day Inter- Departmental Workshop on ‘ Microbiological and Cell Culturing Techniques’ was conducted by the Department of Biochemistry and Department of Microbiology on 3rd and 4th March,2020 for the Biochemistry(GE) students.
- ❖ Faculty members and students of the college participated at the ‘National Science day’ with the theme: ‘Women in Science’ organized by Department of Science and Technology (DST), Ministry of Science and Technology on 28th February,2020 at Vigyan Bhawan, New Delhi
- ❖ One-day seminar on “Significance of Fortified Food in Daily Life” along with an inter- collegiate competition on Healthy recipe formulation using fortified foods was organized by the Department of Food-Technology in association with Food Fortification Resource Centre, FSSAI and NETPROFAN on February 21st, 2020.

Mr. Areeb Irshad, Coordinator, FFRC, FSSAI, introduced the theme as well as the mandate of FFRC. He highlighted the significance of “Micronutrient deficiency and role of Food Fortification”. Ms. Veena Sharma, Country Manager, GSK Consumer Healthcare Ltd. India delivered a talk on the “Food Fortification: The industry Perspective”. Chef Sibal (IFRA) was the Honourable judge in Healthy Food Recipe Competition. Ms. Shivani Moghe, Consultant, FFRC, FSSAI judged the competition along with Mr Areeb. They also conducted a very interesting and engaging quiz on ‘fortification’ for the students from different colleges of Delhi University and Manav Rachna University, Faridabad.

- ❖ Dr. Vikram Saini from AIIMS delivered a lecture on ‘Mycobacterium Tuberculosis’ and Dr Syed Shams Yazdani from ICGEB delivered a lecture on ‘Biofuels’ at ‘Microquest’, festival of Department of Microbiology on 20th February,2020.
- ❖ Department of Microbiology organised a talk on “Introduction to Intellectual Property Rights with special focus on patent technology” by our distinguished alumni, Ms Ruchi Bhatnagar, in the Departmental Alumni meet held on 15th February,2020.
- ❖ Prof. K. Natarajan from BR Ambedkar Center for Biomedical Research, delivered his talk on Mycobacterium Tuberculosis Vs Host on 6th February,2020 at the Intercollegiate Department fest organized by DNAmics, society of Department of Biomedical Sciences
- ❖ There was active participation by the college faculty and students at the International Summit organized by the Department of Biotechnology, Ministry of Science & Technology, Government of India titled "International Summit on Women in STEM, Visualizing the Future: New Skylines" held from January 23-24, 2020 at India Habitat Centre, New Delhi.
- ❖ Faculty members and students of the college attended the Leadership lecture by Dr Trevor Mundel, President of Global Health, Bill and Melinda Gates foundation organized by Department of Biotechnology under DBT-BIRAC Leadership Dialogue Series in partnership with AIIMS - 29th July 2019; titled “Innovating for Impact: How India can lead in helping solve some of the world’s toughest health challenges”
- ❖ The college had a Poster Presentation at Pondicherry University at the DBT-Task Force to review ongoing programmes for annual review & Coordinators’ Meet under Star College scheme held from 18th-20th April, 2019 at Pondicherry University, Pondicherry (U.T.) and the college was awarded ‘A’ Grade by the Department of Biotechnology, Govt. of India.

Student Editorial Board



"How happy is the blameless vestal's lot/ The world forgetting by the world forgot."

Divya Suri



"I have hated the words and I have loved them, and I hope I have made them right." ~ Markus Zusak, (The Book Thief)

Kamna Biju Bhaskaran



जात पात धर्म मजहब को परे रख कोई अगर, इंसान के बारे में पूछे तो अपना सा लगता हैं,

Kartik



I woke up thinking a very pleasant thought. There is a lot left in the world to read.-Nicholas Baker

Pranshu



It is our choices that show what we truly are, far more than our abilities."Albus Dumbledore, Harry Potter and the Philosopher's Stone

Pratibha Mishra



There is always a way out for those clever enough to find it."-Athena, The Titan's Curse

Sudiksha Gupta



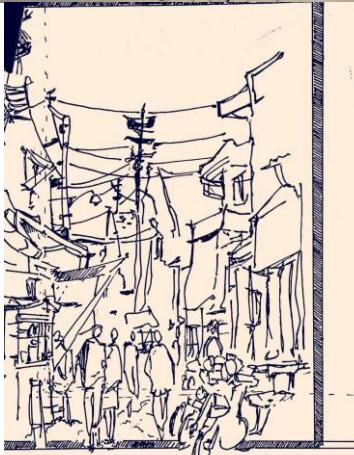
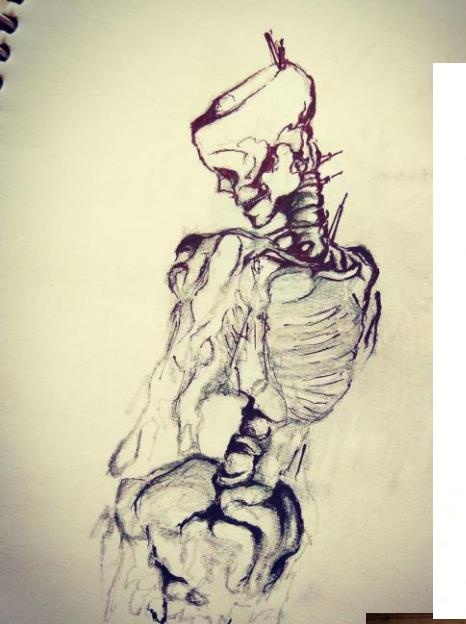
Don't let the temptation of short term satisfaction ruin your long term context.

Shrish



Curiosity is the intrinsic cause of Creativity.

Vibhat



Bhaskaracharya College of Applied Sciences

University of Delhi

NAAC 'A' Accredited

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