



THE PULSE OF HBTU

NOV 18 2022, FRIDAY

FORTNIGHTLY NEWSLETTER



POSHAN MAAH

“The food you eat can be safest form of medicine or the slowest form of poison”

~ANNE WIGMORE

Food is the fuel that keeps us running throughout the day, and it also supports the body's metabolic processes and ensures we remain healthy. The Association of food technology has organized the Poshan Maah (September 1-30) and the central theme of Poshan Maah - 2022 was Mahila Aur Swasthya and Baccha aur Shiksha. Poshan Maah was celebrated as a part of Poshan Abhiyan, the central government's flagship programme which aims to improve nutritional outcomes for children under 6 year of age, pregnant women and lactating mothers.

“ My son is a pre school beneficiary of the anganwadi centre, my son and I have availed several benefits as beneficiaries on growth monitoring. Now my child is working properly and his weight is normal”

-A native of Kollam Kerala

Lectures on food fortification, nutritional security through millets and coarse grains; medicinal plants and the role of Indian traditional foods were delivered to raise awareness amongst the general population. In addition to this, a slogan writing campaign pertaining to healthy eating habits for kids and pregnant women; maternal and post-natal nutrition made for another eventful inclusion, as to make the programme more bilateral and interactive. The programme also brought to light the nutritional status of adolescent girls, pregnant women, lactating mothers and children from 0-6 years of age. Furthermore the programme hailed the significance of encompassing plantation of Indian herbs and plants with the medical/pharmaceutical sector and to promote their nutritional importance. The concept of nutri-gardens was put forth as an economical and indigenous approach for using Indian traditional food crops in combating malnutrition and other related deficiency ailments. The organizing committee of the programme includes Professor Shamsher Sir (Vice Chancellor) and Professor Alak Kumar Sir (HOD, Food Technology). The coordinators of the programme were Dr. Vivek Kumar (Associate Professor, Food Technology) and Dr. Anurag Singh (Associate Professor, Food Technology).

INTERVIEW

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Q.1. How was your journey like from HBTI to the director of SapphiApplication Integrators Limited?

I joined HBTI in 1992. After completing my MCA from HBTI, I started working as a project associate at IIT Kanpur for a while after which I worked in a UK-based company for 3 years. During the tenure of my job at WIPRO, I got married which led to a handful of career breaks. I had to leave my job at WIPRO and join my husband back in Bombay. There, I consecutively got into Escosoft in Delhi, Mentis, and HCL and soon after Escosoft, I got associated with Control Communications for more than 7 years. But, another major career break was on its way. I ended up switching from an employee to a full-time homemaker when my children were at the peak of their education. Keeping a check on them was my priority as a other.Soon, in 2016, I jumped back into the corporate world and started taking up projects, during which one of my clients based in the UK offered me to set up a team in India for him and that's how Sapphire came into the picture. With the idea of creating a virtual setup in order to avoid unreasonable expenses, I worked towards this full throttle. Eventually, one thing led to the other, and that's how I ended up in the Director's seat at Sapphire Application Integrators Limited.

Q.2. How was the pre-covid scenario different from that of the post-covid one?

It was quite tough to convince people regarding the work-from-home concept because they didn't find it as efficient as the traditional one. And the people who did get convinced weren't efficient enough. After giving it a thought, I tried connecting with a couple of my female friends in HBTI, who, due to unavoidable circumstances, could not continue with their jobs. And surprisingly, this became the turning point for us. Earlier when we were in the search of freshers for our firm, we only hired fresh graduates. But during the covid lockdown, we came up with the idea of encouraging 1st, 2nd, and 3rd-year college students for taking up an internship, which overall led to the enhancement of the team.

Q.3. As a mentor, what are the changes you have observed in the present students from the students of the 1990s?

There have been quite a many changes if we compare the 90's to the 21st century, but among those changes the positive aspects take the lead. In our times, being a graduate in computer science was enough for getting jobs but now, with a surplus of qualified students for the jobs, there has been a lot of competition. Nowadays, I have seen students participating in hackathons, clearing various exams of google, amazon, etc. which is really commendable. This justifies the awareness of the students of the present generation. Students of today's generation have to hone their soft skills as well as prepare thoroughly for he interviews as the selection rate has decreased gradually. We used to be like we have completed our graduation and will anyways qualified to get one or the other job. In those times, we used to have 2-3 call letters in our hand. According to my perspective, I find that students now somewhere lack an emotional connect. However, overall there has been a lot of affirmative transformation in the students of today's era.

Q.4. How much the picture of HBTI has changed since you were a student and up to this date?

During the time when I was a student, getting a seat into HBTI was considerable an achievement in itself. The people in 50s and 60s at that time placed it as top notch college and considered it equivalent to the prestigious IITs. However, in the recent times, HBTU has lost its charm. The fact that people today place private colleges above HBTU is also saddening.

Q.5. What are your views on the infrastructure of the college in today's date and how successful is it in attracting the student community?

Some of the infrastructure, in my opinion, still requires significant polishing and renovation.In this case, private colleges are far ahead of us because they invest the exorbitant fees collected from students in impressive infrastructure and marketing strategies.Government colleges such as HBTU should also make effective use of the fees collected and funds provided and invest them in the betterment of the college's shape.

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Q.6. Was getting into HBTU your own decision or did you follow someone's advice to do so?

During my time, CUET was the gateway for entry into the four most prestigious colleges of UP namely, the now NIT Allahabad, HBTU Kanpur, IET Lucknow, and Gorakhpur college.

I could not qualify for NIT Allahabad and therefore, I was left with the other three choices. My father, personally, was inclined towards IET Lucknow mainly because this one college was comparatively closer to the residence and the other two cities (Kanpur and Gorakhpur) were not much developed back then. But then, thinking it was my journey, I decided getting HBTU. The reason being the glorious 75 years history of college (the then HBTU).

Q.7. Our honorable president has granted the position of "university" to our institution. On the same hand, our respected vice chancellor is giving his all to level the requirements. What are your views on this?

We are all familiar with the concept of holding a university position, which entails managing and assisting other colleges. It aids in the expansion of our knowledge. Additionally, colleges and campuses will benefit from having access to the expertise of a reputable college.

Q.8. What would you like to convey to the female Harcourtiens?

I'd say that there has been much progress in these 25 years. Back in our time, there'd be 2-3 girls in a cohort of 50; that trend is now reversed. We came of age observing our mothers provide for the family while the males espoused an orthodox philosophy. Also, the pay scale was unilateral and gender-biased. For instance, if a corporation paid the male employees Rs x for a task, their female counterparts would only receive Rs 0.7x for the identical task. However, things are different now and the male chauvinism has changed for the better, and it has become commonplace for a female to lead a whole organization, which was rare in our days. So, from a vantage point of optimism, things have definitely improved.

Q.9. What are some of the best college memories you'll carry with yourself till the last?

A large part of my memories is derivable from our three-day festival at the time, known as ODC; I'm not sure if it still goes by that name today. Various activities took place throughout the day at the time, and we were constantly on the move. The girls had previously lived in flats designated for teachers on the west campus, and we were the first batch to be assigned to the hostel. It was a single hostel at the time, and the new structure was redolent of a refreshable scent and everything felt unique. Then there was a zoological garden nearby, and we got accustomed to waking up when the lions roared, so it was all fun, and I still recall it fondly.

Q.10. At the last, please send a message to the students of HBTU.

A piece of advice I want to give to the students is that do whatever pleases you. It's a common opinion but it is the truth that you should never go about doing things just because other people are doing it. Even if the smallest of actions makes you happy then it's your call to do that. In the end all that really matters is that you keep listening to yourself because you know yourself better than anyone else.

IN AND AROUND

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Aeroclub Workshop

*Never quite. Never give up. Fly it to the end.
~Chuck Aaron.*



The 17th and 18th of September were two unforgettable days; students creating and building their plane models, gathering knowledge in every step of the way, and learning the important skill of teamwork. This was the day when HBTU's Aeroclub held an orientational session along with a workshop for interested students. Hosting the workshop along with the orientation turned out to be a huge success, as students were able to build their crafts with a vision in their mind and really know what they're getting themselves into. The basic amenities required for building the planes were provided by our respected seniors who throughout the course of the workshop, helped the students in any hurdle they faced whilst the fabrication. As the end approached, numerous high-winged aviation models were ready to be tested for a flight. (High-Winged means that the wings of the plane are mounted at the top end of the fuselage. High winged airplanes provide extra stability and this design runs in commercial flights; eg - Indigo, SpiceJet, etc.) To test as to what the students had learned so far, a quiz was also held at the end of the fabrication session. For the actual testing, the models were transported to the West Campus of HBTU. Some models did dummy well, while others touched the sky after a few fixes. The efforts put in by our seniors; the arrangement of every little item required and tirelessly helping each junior, along with the enthusiasm, sincerity, and dedication shown by all the participants throughout this journey was praise-worthy. Students were inspired to learn more about the field of aviation and maybe in the upcoming years, teach their juniors all about AeroModels.



IN AND AROUND

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SANITATION DRIVE : BY NSS HBTU



As rightly said by Thomas Fuller, a clergyman and a historian of the 17th century, charity begins at home. And what better way to portray the same than to work towards a good cause starting from our very own institute! On the occasion of Mohandas Karamchand Gandhi Ji's 153rd birth anniversary, the initiative of reviving the importance of cleanliness and hygiene of our environment was taken into action, and it was for sure, a successful one!

Cleanliness is a necessity of public importance. And it's not just about keeping the area around you clean; less use of plastic items and other hazardous items as such. Citizens can only lead a healthy life if their surroundings are clean. The inspiring sanitation drive was conducted by NSS HBTU, in the East Campus Premises on the 9th of September, 2022. NSS strives to take great initiatives as such thereby instilling within today's generation the belief of - "Not Me But You". The drive was a hearty success, combined with the efforts put in by the students and our respected faculty members. The event was graced with the presence of Dr. Vikas Kumar Yadav (Co-secretary, USAC) and Dr. Abhishek Kumar Lal, convener of NSS HBTU (Assistant professor, Leather department). This might be a small step taken within the premises of the university, but it carries a greater message with it. We need to understand the importance of cleanliness and similar sanitation drives conducted on a regular basis. Planet Earth is the only home for us, humans. We as a community must work towards it and inculcate within our lives practices of proper sanitation. We hold the responsibility to keep the planet a beautiful place to be and maintain the beauty of Mother Nature.



NATIONAL INTERNATIONAL

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Kerala Govt declares Sabarimala as 'liquor and drug-free zone' from Nov 14 to Jan 22



The Kerala government has declared the premises of Lord Ayyappa Temple at Sabarimala and its near by area as "liquor and drug free zone" from November 14 to January 22, 2023 as the annual two - month - long Mandalam-Makaravilakku festival is just days away. Besides the temple complex "Sannidhanam", consumption and sale of alcohol, drugs and tobacco have also been banned in Pamba, Triveni, Marakootam, Sabari Peedam and other areas in Perinadu and Kollamula villages.

'Major Pollute' India must pay for climate damage: Island nations at climate summit



During the climate summit in Egypt, the Alliance of Small Island States said highly polluting emerging economies including India and China should pay into a climate compensation fund to help countries rebuild after climate change driven disasters. Prime Minister Gaston Browne, speaking on behalf of the Association of Small Island States (AOSIS) said that "We all know that the People's Republic of China, India - they're major polluters, and the polluter must pay., India's per capita emissions are significantly lower than world average.

India to become third-largest economy by 2027: Morgan Stanley

India is on a path to surpass Japan and Germany to become the world's third largest economy by 2027, according to a Morgan Stanley report. The report said India's GDP could more than double from \$3.5 trillion to over \$7.5 trillion by 2031. The BSE could reach a market capitalization of \$10 trillion in the coming decade, the report said.

Justice DY Chandrachud takes oath as the 50th Chief Justice of India



President Droupadi Murmu on Wednesday administered the oath of office to the new chief Justice of India, after over six years as a judge of the Supreme Court. Justice DY Chandrachud, at the Rashtrapati Bhawan. Justice of India, succeeding Justice Uday Umesh Lalit. Justice Chandrachud will serve as the CJ for two years till November 10, 2024.

Bitcoin briefly falls to its lowest since Nov 2020 amid Binance-FTX deal

Bitcoin fell to \$17,300.80 on Tuesday, the lowest level since November 2020, triggered by reports of the cryptocurrency exchange Binance taking over its rival FTX. Bitcoin rose by 6% initially following the takeover announcement but then fell as investors were worried about FTX's balance sheet. Bitcoin was trading over 7% lower at \$18,372.07 around 11.5am on Wednesday, Coinbase showed.

Aruna Miller becomes 1st Indian-American Lieutenant Governor of US' Maryland



Aruna Miller on Tuesday scripted history by becoming the first Indian-American politician to win the race of Lieutenant Governor in the state of Maryland Mid-Atlantic region of the US. "Maryland, you chose unity over decision, expanding rights over restricting rights, and hope over fear," Miller said. She was born on 6 November 1964 (age 58 years) in Andhra Pradesh before migrating to the US along with her parents.

N Korea fired ballistic missile towards eastern sea: S Korea



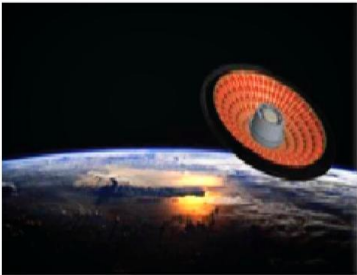
North Korea fired a short-range ballistic missile towards its eastern sea from Sukchon, Seoul's Joint Chiefs of Staff said. The missiles were called a "strategic weapon of great significance". Last week, North Korea launched two ballistic missiles in response to joint drills conducted by South Korea's military said it recovered debris of one of the North Korean missiles determined to be Soviet-era anti-aircraft weapon.

SCIENCE AND TECHNOLOGY

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NASA completes LOFTID Technology demonstration designed to land humans on mars.



NASA completed the technology demonstration of its Low-Earth Orbit Flight Test of an Inflatable Decelerator (LOFTID) mission. The \$93 million mission has the capacity to land 20 to 40 metric tons of payload on the Martian surface. NASA has spent over a decade developing the Hypersonic Inflatable Aerodynamic Decelerator (HIAD) technology and has finally tested it successfully. Aeroshell is a rigid casing around a spacecraft to protect it during re-entry to the Earth. LOFTID aeroshell is constructed with a stack of pressurized concentric rings that render the rigid blunt cone-shaped structure. The inflatable structure maintains the shape against drag forces while the flexible thermal protection system acts as a shield from the heat during re-entry.

Wind turbines could capture carbon dioxide while providing power



Wind turbines, according to researchers at Purdue University, can draw polluted air from above a city or smokestack into their wakes. According to Purdue mechanical engineers, as large, power-generating wind turbines rotate, they create turbulence that pulls air down into the wakes behind them. It's an effect that can concentrate carbon dioxide to the point where capture is feasible, especially near major cities like Chicago. Wind turbines don't require the cooling that nuclear and fossil fuel plants need, making them ideal candidates for CO₂ capture. They could also address the financial burden that often goes along with capturing CO₂. The researchers intend to describe their simulations as well as a scaled-down system wind tunnel test.

Lunar eclipse 2022: Highlights

The total lunar eclipse, known as a blood moon that occurred yesterday was the last for the next three years. The lunar eclipse has ended, and the Moon is no longer under the shadow of the Earth. Stargazers around the world who glance at the Moon will now be met with a typical full Moon. When the Earth travels between the Sun and the Moon, it partially or totally blocks sunlight from reaching the Moon. This casts a shadow on the surface of the Moon, which we observe from Earth. This is known as a total lunar eclipse and the moon turns red when the eclipse reaches totality. According to NASA, the next total lunar eclipse will occur on March 14, 2025.

Japan to invest up to \$500 million to manufacture advanced chips



Japan announced on Friday that it will spend up to 70 billion yen (\$500 million) in a new semiconductor company called Rapidus led by tech giants including Sony Group Corp. as it seeks to re-establish itself as a leader in advanced chip manufacturing. The new chip company will be called Rapidus, and it plans to start producing chips in the second part of the decade, said Economy, Trade and Industry Minister Yasutoshi Nishimura during a news conference. Japan is restarting chip production to ensure that its automakers and information technology firms do not run out of the critical component. As trade tensions between the US and China escalate, Japan is determined to ensure that it has access to sophisticated semiconductor technology. As part of that, Japan's government is providing financial incentives to foreign chip makers to build plants in Japan, including 400 billion yen to assist Taiwan Semiconductor Manufacturing Co., the world's leading maker of logic chips.

Hyundai to introduce global battery electric platform in India with IONIQ5

Hyundai Motor India Limited (HMIL) has confirmed the arrival of its second electric car in India, the Hyundai Ioniq 5 electric crossover, with a probable debut date of the Auto Expo 2023. The Hyundai Ioniq 5 will join the Hyundai Kona Electric as the company's first model to be offered on the Electric Global Modular Platform (E-GMP) platform, which also supports the Kia EV6. Over the next few years, the business intends to release a mix of models from its existing lineup as well as wholly new cars based on its worldwide platform 'E-GMP' targeting different sectors. Hyundai E-GMP - the Electric Global Modular Platform - is a dedicated battery electric vehicle platform for Hyundai Motor Group automobiles forming the backbone of many different types of vehicle.

Major glaciers, including Dolomites and Yosemite to disappear by 2050, UN finds.



According to a UNESCO research, some of the world's most iconic glaciers, including those in the Dolomites in Italy, the Yosemite and Yellowstone parks in the United States, and Mount Kilimanjaro in Tanzania, may vanish by 2050 due to global warming, regardless of the temperature rise scenario. UNESCO, the UN cultural agency which monitors 18,600 glaciers across 50 of its World Heritage sites, says a third of World Heritage glaciers are set to disappear by 2050. Rest can be saved if global temperature rise is kept below 1.5 degrees Celsius (2.7 Fahrenheit). However, in a business-as-usual emissions scenario, 50% of these glaciers could disappear by 2100. World Heritage glaciers, as defined by UNESCO, account for approximately 10% of the world's glacier regions and include some of the world's most well-known glaciers, the loss of which is highly visible since they serve as focal points for worldwide tourism.

Climate activists in at least 13 countries protest private jets



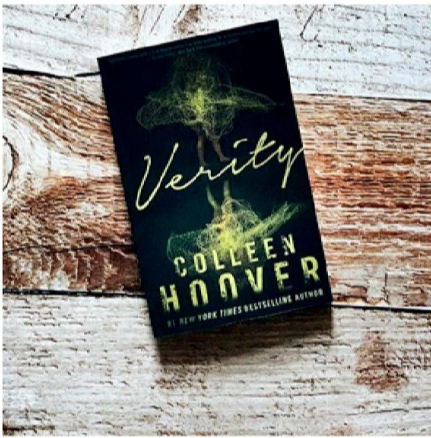
Activists in Europe and the United States are protesting aviation emissions and calling for a ban on private jets. Extinction Rebellion, Scientist Rebellion, and Guardian Rebellion activists descended on the airport terminals as part of coordinated activities in at least 13 nations. Protests were held at Farnborough Airport and the Harrods Terminal at London Luton Airport in the United Kingdom. Similar protests were held in Milan, Italy, and Stockholm, Sweden. Protests take place as world leaders convene in Egypt for the United Nations Climate Change Conference (COP-27) involving governments negotiating how to reduce greenhouse gas emissions, how to provide funds to countries most affected by climate change, and where to focus adaptation efforts. The campaigners targeted private jets because they reflect the ultrarich's - and their lifestyles' - contributions to global greenhouse gas emissions. Celebrities such as Taylor Swift and Kylie Jenner experienced public outcry earlier this year for their usage of private planes.

EDITORIAL

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BOOK REVIEW



VERITY

Lowen Ashleigh is a struggling writer with an unsatisfactory life when she is offered to complete the unfinished series by the bestselling author, Verity who is practically immobilized. Desperate for an instant need of money, Lowen accepts the offer and visits Verity's house in the hope of finding enough material in her office and eventually, getting through the writing style of Verity. Amidst all this analysis and detection in the chaotic office of Verity, Lowen discovers a manuscript that appears to be an unpublished autobiography of Verity.

As the story progresses, bone-chilling revelations are revealed that make Lowen want to hide the disturbing manuscript from her view while also piquing her interest more and more with each chapter. As the story unravels, things that don't add up start to happen. Discover what the future holds for Verity, her devastated husband, and the struggling writer tasked with finishing the unfinished series.

Verity is a spine-chilling psychological thriller with a series of dark twisted tales. Colleen Hoover has done a terrific job of encapsulating the whole book with a potent sense of danger, hidden secrets, and mistrust. The story twirls around in such a way that it's unsettling, eerie and creepy and proves to be a major page turner. The author has also shown the shady depths of human character in this book. The final massive plot twist of the book is pretty wild and had my jaws touching the floor though it leaves you slightly on a bit of a cliff-hanger.

Overall, Verity is mind-boggling, eerie, and unputdownable. This book may be disturbing to some readers due to its unhealthy obsession and morally conflicting actions. However, if you want to read something that will completely blow your mind; this is the book for you. The book also contains mature content and is recommended for readers over the age of 18.

- Disha Singh
2nd B.Tech, IT

EDITORIAL

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SLUMDOG MILLIONAIRE

The Story of Israel's Economic Miracle



Rags to riches isn't a story anyone wants to hear until after it's done.-Maggie Stiefvater

In May 1948, the indelible history of conflict between the Jews and Arabs saw a new era when the state of Israel declared independence and was recognised by both the superpowers of Stalin and the U.S. The holocaust survivors from West Germany were migrating to their new abode. Sanai was at peace, until it wasn't. Attacked by the allied armies of five neighbouring countries from left right and centre, Israel was at war the next day from its independence. Averaging 1 major war decade in the first five decades of its independence, and after a total of 6

wars, 2 intifadas and economic boycott and diplomatic isolation from all its neighbours; Israel today is the second most preferred place to open a start-up rivalling Silicon valley for that top spot.

Playing to its support were not only the millions of USD it received from the US and Germany as aid and reparations, but the strategy and awareness of the Jews. From winning wars by dropping soda bottles on enemies to The Yozma fund and the Israeli education policy, the Jews never put a step wrong. In Spite of being in the centre of expensive chaos the Israelis built the 8th most powerful nation in the world. For Israel, every penny invested into education needs to pay dividends either to the economy or to the intellectual powerhouse of the country. Israeli education system produces highly skilled engineers who are educated according to the specific requirements of the domestic and international markets instead of the stereotypical engineers with copy pasted projects with fancy names. As a result, various companies Google, Apple and Intel developed over 300 R&D centres in Israel.

The policy of Yozma fund, a government venture capital fund, made Israel witness a funding rush for the Israeli startups in 1990. In the policy, the government planned to invest 40% of funding provided foreign companies invest 60% in Israeli startups, also giving options for the investors to cheaply buy the shares back from them if the company blew up. This raised 263 million USD for 164 startups with over 100 million coming from the government itself which today is worth around 3 billion USD with startups like Mobilye, M systems and Waze.

With 'jugaad', intelligence, education, incubation and engineering, the Jews transformed Israel from the image of a nation engulfed in war to a \$480 billion GDP economy and 10th largest weapons exporter in the world. The extent of the success of Israeli startups is proved by the fact that they turned their entire military spending into investment and made billions in arms export and providing cybersecurity and intelligence to other countries also cementing their geo political standing. If Scotland has its Silicon Glen, Utah has Silicon Slopes and Dubai has Silicon Oasis; The Silicon Wadi of the Jews has shown its metal to the Bay area with a significantly less land and population. The Wadi shows its fang to the Top Guns of the startup world with maverick approach towards power.

- Garvit Mohan Sharma
2nd B.Tech, EE

CREATIVE CLUSTER

NOV 18 2022, FRIDAY

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इन दिनों मन कुछ उदास सा रहता है
मै ना जानू , वो किसके पास रहता है

मुसाफिर थक जा रहा मंजर की तलाश में
आंखों में ओझल सा उसका अहसास रहता है

मंजिल ढूँढ रही मझधार उस जैसा
एक दस्तक भी शिनाख्त - शनास रहता है

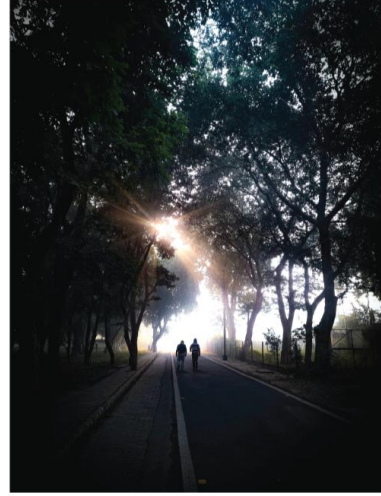
कोई मुकम्मल कर दे ख्वाहिशें मेरी
जहमत हमेशा मेरे आसपास ही रहता है

नफीश कुछ क़यामत से कम नहीं वो
बस तहकीकों का जेहन में लिबास रहता है

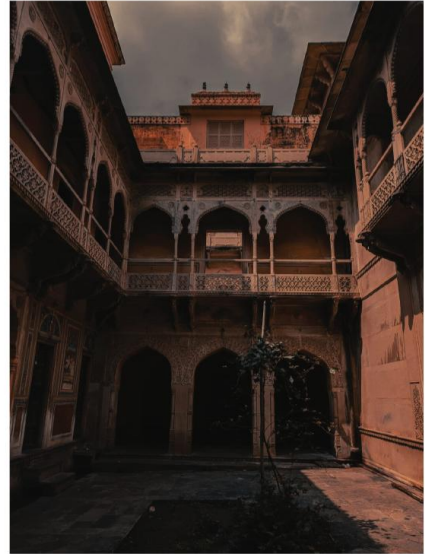
शरद में दरख्तों से अक्सर तकती रहती है
पर चित्त में इताब का वास रहता है

सफर ए जिंदगी में बस सिफ़र है बचा
मगर लहजा हमेशा इख्लास रहता है ...

Abhishek
Final BTech Civil Engineering



Praveen singh
2nd BTech Mechanical Engineering



Yatendra Yadav
2nd BTech Chemical Engineering