PSMSC

100 YEARS
1921 - 2021

THE PULSE OF HBTU

Centenary Edition 25 NOV 2021

Journey to the past

Centenary Celebrations

100 Years' souvenirs

Preface

The year of 2021 marked turning our esteemed University to a 100-years old legacy. With such an honour ,comes a greater responsibility, the responsibility of each and every individual who was or is currently a part of this Institution, who made it to 100 years, to celebrate this milepost. Also, to identify and to propagate what the University has been about; Practice, Preach and Progress. The astounding excellence ,that has always surpassed every preceding year's and poses the sense of "Proceeding and Winning", no matter where and when, requires to go on for e ternity. The ones who lead the way may come and go, so does the sunny or gloomy days, but what remains affirm is the consistency of excellence, the non-stop efforts of all those in power in making the name , shine brightly like never. With the motto of capturing every single moment, relived by those who once wandered round concourse, now behold the world, and those who are still stepping stones to conquer the world , we at PSMSC, all through this edition of Pulse of HBTU, present you the most of it , the most celebrated and remarkable ***"CENTENARY EDITION"*** *at HBTU Kanpur.*

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CELEBRATING **100** YEARS OF **EXCELLENCE**

Among the beguiling images of the Shatabdi Bhavan, commemorating an **"Eternal Legacy"** of service, prosperity, enlightenment, and excellence in technical education, Harcourt Butler Technical University celebrated its 100 years of establishment on 25th November 2021. The celebrations became even more special as the First Citizen of India, President Shri. Ramnath Kovind participated in the festivities. Dignitaries such as Governor of Uttar Pradesh Smt. Anandiben Patel, Technical Education Minister Shri Jitin Prasad, Cabinet Minister of Industrial Development in the Government of Uttar Pradesh Shri Satish Mahana, Minister Nilima Katiyar, Members of Lok Sabha Satyadev Pachauri, Devendra Singh Bhole, Member of Rajya Sabha Chaudhary Sukhram Singh Yadav, Member of the Uttar Pradesh Legislative Assembly Surendra Maithani, Chief postmaster general Kaushlendra Kumar Sinha, Shri Ajay Seth, Secretary, Department of Economic Affairs, Ministry of Finance, Government of India graced the occasion with their presence. Alumni from all across the country and the world, students, faculty members participated in the celebrations. The program was also live-streamed on YouTube that was watched by thousands of people.

In his address, Hon'ble Vice-Chancellor Prof. Samsher shed light on the University's rich history and gave a brief about the university's present curriculum and plans of expansion. He shared that currently 5000 alumni are connected via the Alumni Association who are helping the university in various ways. Alum A.K. Dutta has played an instrumental role in establishing a Research Laboratory in the university. He emphasized on contributions of Departments of Oil technology, Paint technology, Plastic technology, and Food technology in creating a distinguished identity in the country. Presently, the university offers 13 B.Tech. courses, 9 M.Tech. courses and Ph.D. programs as well. This year, the university has also started MBA courses and MCA courses in Physics and Maths. Hon'ble VC sir also briefed the audience with the university's online ERP portal and the philanthropic works of the Mahila Adhyayan Kendra. He also told the audience that the university has been working on developing its curriculum according to the latest Education Policy. He concluded his message with the hope that soon the university will be granted the status of a Central University.

Further in the program, Hon'ble Vice-Chancellor presented a shawl and Smriti chihna to our chief guest Hon'ble President of India Shri Ramnath Kovind, Hon'ble Governor Smt. Anandiben Patel, Technical Education Minister Shri Jitin Prasad, and Cabinet Minister of Industrial Development in the Government of Uttar Pradesh Shri Satish Mahana.

On the occasion, the President released the coffee table book, the Commemorative postal stamp, and Commemorative 100 Rupee Centenary coin along with the University's history book. He also inaugurated the newly completed buildings of the institute including the Shatabdi Bhawan, Shatabdi Dwar, classrooms of the Department of Mechanical Engineering, the Lecture Hall complex, and the Training and Placement Cell.

In his address, Technical Education Minister Shri Jitin Prasad congratulated all the alumni and students. He expressed his joy on the state of exemplary placement records of the university and encouraged the students to focus on innovation and polishing their skills.

In her address, Governor of Uttar Pradesh Smt. Anandiben Patel appreciated the university's efforts in imparting job-oriented education to the students and encouraged it to take up more and more initiatives to make quality education accessible to the remotest corners of society.

She admired the philanthropic initiatives of the university and encouraged it to scale up the efforts soon. Quoting the figures of Phase I of the National Family Health Survey (NHFS), she emphasized the importance of the health of women and called upon the university to organize steps to conduct blood tests for its female students to identify issues such as anemia. She called upon the alumni to contribute and raise a fund to improve the living standards of the villages adopted by the university.
Addressing the centenary celebrations of the University, the President of India, Shri Ram Nath Kovind said that Institutions like HBTU should inculcate the spirit of innovation and entrepreneurship in their students.
The President said that HBTU has been recognized for its contribution in the fields of oil, paint, plastic, and food technologies. The glorious history of this institution is linked to the industrial development taking place in India since the beginning of the 20th century. The technology and human resources provided by HBTU have been instrumental behind the fame of Kanpur as 'Manchester of the East, 'Leather City of the World' and 'Industrial Hub'.

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The President said that when HBTU is celebrating its centenary, the country is celebrating Azadi Ka Amrit Mahotsav to commemorate 75 years of independence. And in the year 2047, when the country will be celebrating the centenary of independence, HBTU will be completing its 125 years. Pointing to the current ranking of HBTU in the National Institutional Ranking Framework (NIRF) which is at 166th, the President set the target that the university should be ranked among the top 25 institutes of the country. He emphasized that to achieve this goal they have to work with determination. Emphasizing the need for innovation and technology development in India, the President said that only those countries in the world remain at the forefront, which gives priority to innovation and new technology and continuously enables their citizens to face the challenges of the future. Our country has also increased its credibility in the field of technology but we still have a long way to go. In this context, the role of institutions like HBTU becomes important. He said that our technical institutions should inculcate a spirit of innovation and entrepreneurship in their students. Students should be provided such an environment from the very beginning in which they can contribute to the development of the country by becoming a 'job giver' instead of a 'job seeker'.Pointing to the low participation of girl students in technical education, the President said that his general observation had been that the performance of girls has always been impressive. Referring to the wide disparity between the number of female students currently enrolled in fields of technical education as compared to the male students, he emphasized that it is the need of the hour to bridge this gap. His powerful message to the audience encouraging women empowerment was followed by massive applause from the audience that was proof enough of the impact of his words. Referring to the Swachh Survekshan Awards 2021 held in New Delhi last Saturday, the President noted that in the Swach Survekshan among the urban bodies of the country, Kanpur city jumped to 21st place in 2021 from 173rdin 2016. He said that the achievement though is a cause of happiness, but it's still not satisfactory. Calling upon all the citizens of the city, he set the target to be among the top five cleanest cities in the country in the next survey. Quoting the example of Indore city, which has been constantly maintaining its top position in the survey for the last five years, the President advised the officers to work with the administration of Indore city and come up with plans that help Kanpur city reach the said target. He said that he knew the people of Kanpur, if they decide to do something, they achieve it. He urged them to make the goal of cleanliness of the city a mass movement.
The President admired the contributions of the University's alumni in the country's progress, giving the examples of – Keshav Dev Malviya who was the leader of Indian National Congress and a union minister, Anu Garg, the founder of Wordsmith.org, an online community comprising word lovers from an estimated 195 countries, Anil Khandelwal; an author, speaker, corporate advisor and a board member. Currently, he is on the board of Gail Limited and serves as a senior advisor at KPMG, a Maharatna company in the public sector. And Dinesh Agarwal founder and CEO of IndiaMART, an online B2B marketplace in India.

400 kgs of Gunmetal to
Treasure the Varsity's history for a Millennium

On the auspicious occasion of the Centenary Celebration of the University, the time capsule-a cache of all the goods and information that will help future generations to connect with the past, was preserved at a location close to the main building by the Hon'ble Vice-Chancellor Prof. Samsher. The accompanying plaque carried the following message: TIME CAPSULE OF HBTU KANPUR BURIED ON 25TH NOVEMBER, 2021 by HON'BLE PRESIDENT OF INDIA SHRI RAM NATH KOVIND. The time capsule encompasses the following information:

1. Aerial map of the university
2.Seal and logo of the Institute/ University engraved on metal
3.Ordinances, Act of the University, and Rules and Bye-Laws.
4.Minutes of BOG and EC meetings
5.Annual Reports
6.DPRG reports
7.Photographs collected over 100 years in digital format
8.History book
9.List of R&D Projects and Publications
10.Information about the building
11.Typical weekly menus of the hostels
12.Copies of Information Brochure
13.Information on Co-Curricular activities
14.Sample of degree certificates
15.Replica of President Gold Medal.

Time Capsule

The information is being preserved in the time capsule in form of a hard disk along with paper printouts of Degree certificates and photographs. The capsule is made of gunmetal and has been sealed with Nitrogen gas to preserve the contents. The capsule weighs 400 kilograms and it can safeguard its contents for up to 1000 years. The capsule has been buried at the depth of 10 meters inside the Centenary Pillar. The Centenary Pillar not only commemorates the 100 years of the university's accomplishments, but also serves as a landmark for the capsule's location. The TIME CAPSULE event was a unique one from the academic point of view and it created a buzz all over evident from the innumerable pictures of it being posted by the students on their Instagram handles. This day full of mirth and joy will always remain etched in the hearts of all Harcourtians till eternity.

WELCOMING
the Centenary Gate and Auditorium

The organizer committee of the Centenary celebration made sure the beautification of all the entrances to the University. Even after the beautification was done, the vote was settled and instructions were given to develop the gate located in front of the Kisco substation in the western campus of the university as "Shatabadi Gate".It is a tall structure with an entrance and exit separated by a large beam structure.
A grand entry to "Centenary Auditorium".
This centenary auditorium was inaugurated during the centenary festival by Hon'ble President Ramnath Govind Ji. Along with seating in this auditorium, excellent arrangements have been made for the program to take place. It is a huge metal structure with paneling on top with full arrangments of parking.
An excellent road connecting the Centenary gate to the Auditorium was also constructed, which further connects the four hostels of the west campus. In this auditorium, every small thing has been arranged for you, along with an Ac hall the ventilation system here is also very good with a grand stageThis Centenary auditorium is also known as "Multipurpose hall"

Shatabadi Bhawan

Shatabadi Dwar

HBTU students and teachers will be able to buy the commemorative coin and postage stamps, know the specialty and how it will be achieved

The students, alumni, teachers, retired teachers, and officers-employees of the university will be able to buy a coin of Rs 100 and postage stamp worth Rs 5, made by the HBTU administration as a commemorative symbol. The price of this coin made in the mint in Kolkata has been fixed at Rs 7500 and the price of a postage stamp at Rs 5.
President of the University's Alumni Association and Kerala Police Commissioner Balram Upadhyay said that HBTU has become the fourth university in the country, which has got a commemorative coin manufactured in its centenary year. Earlier, PHU, Lucknow University, and Mysore University had also made coins in their centenary years. The weight of this circular coin of 100 rupees is about 35 grams, diameter 44 mm. In this, 50 percent silver, 40 percent copper, five percent nickel, and five percent zinc have been used. The main part of the coin will have the lion head of Ashoka Pillar in the middle, under which Satyamev Jayate will be written.
The word Bharat will be written in Devanagari script on the left periphery and India in English on the right periphery. The symbol of Rupee and 100 will be written below the lion's head. Portrait of the main building of Harcourt Butler Technical University is in the center on the back, Harcourt Butler Technical University Kanpur Centenary Celebration in Devanagari script on the upper periphery, and Harcourt Butler Technical University Kanpur Centenary Celebration in English on the lower periphery. The year 1921-2021 will be written below the picture of the main building. The picture of the university will be made on the postage stamp made in Nashik and the year will be written. Vice-Chancellor Prof. Samsher said that the university has issued a total of 50 coins and 60 thousand postage stamps. The first three coins have been prepared for 13 thousand rupees, which will be unveiled. The rest of the coins have been prepared for Rs 7074. Which people associated with the institute will be able to take for Rs 7500.

Centenary Celebrations

HBTU Main Building

Mechanical Engineering Department

Centenary Pillar

Radhakrishnan Auditorium

Computer Science & Engineering Department

Shatabdi Dwar
West Campus,HBTU

Shatabdi Bhawan,
West Campus HBTU

Central Workshop,East Campus

Gangotri Hostel,East Campus HBTU

NATIONAL AND **INTERNATIONAL**

Indian-American Mathematician Nikhil Srivastava Nominated For AMS Ciprian Foias Award-

The American Mathematical Society (AMS) has unanimously nominated esteemed Indian-America mathematician Nikhil Srivastava for the first Ciprian Foias Prize in Operator Theory. According to a press statement, the prize recognises the groundbreaking work in developing and introducing techniques to understand the characteristic polynomial of matrices, including the iterative sparsification method which also partners with Batson and the process of interlacing polynomials.Nikhil Srivastava was born in the Indian capital city of New Delhi. In 2005, he graduated with the highest distinction, with a Bachelor of Science degree in Mathematics and Computer Science from Union College in Schenectady, New York. In 2010, he earned a Ph.D. in computer science from Yale University.

CDS Bipin Rawat passes away: Quotes that would inspire generations for ages

In an unfortunate accident, an Indian Air Force helicopter carrying Chief of Defence Staff (CDS) General Bipin Rawat crashed near Coonoor in Tamil Nadu on Wednesday. A total of 14 people were on board the Mi-17 V5 helicopter, of which CDS General Bipin Rawat, his wife Madhulika and 11 others have died in the IAF's chopper crash at Tamil Nadu's Coonoor. Taking to Twitter, the IAF has confirmed the tragedyGen Bipin Rawat was on a visit to Defense Services Staff College in Wellington, Nilgiri Hills, Karnataka. CDS Bipin Rawat was admitted to Military Hospital, Wellington, and was undergoing treatment. Sources have hinted that poor weather led to the accident. Defence Minister Rajnath Singh has briefed PM Modi regarding the crash while Army chief Gen M Naravane is monitoring the situation from DGMO. Indian Air Force has initiated an inquiry into the crash.

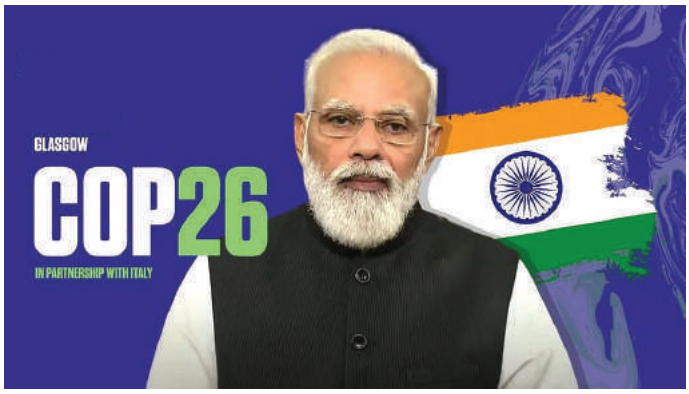
PM Narendra Modi withdraws three farms laws asks farmers to go home

Prime Minister Narendra Modi on Friday unexpectedly announced that the three controversial farm Acts would be repealed in the upcoming session of Parliament.The prime minister said a committee of state and central representatives, farmers, and experts would be set up to make the minimum support price (MSP) mechanism more transparent and effective. Addressing the nation on the occasion of Gurupurab, the birth anniversary of Guru Nanak, Modi said the Acts were in the best interests of the nation and were targeted to benefit small and marginal farmers but it seemed the government had failed to convince a section of the farmers and therefore it had decided to withdraw the laws.

The agitating farmers, meanwhile, have decided to continue their agitation till a firm commitment is made on statutory guarantees for remunerative prices for all agricultural produce and also withdrawing the Electricity Amendment Act. The farmers had planned a series of events on November 26 and were planning to march to Parliament with tractors. Protests were being planned in other parts of the country as well.

The protesting farmers also alleged that the Acts were a stepping-stone for big corporations to get into farming.States such as Punjab have been against the laws on the grounds that they were an affront to the states' powers to make laws on agriculture.The Centre, on its part, held 11 rounds of discussion with them and offered to amend some of the provisions of the laws, but without much success, as the protesters stuck to their main demand of annulment.

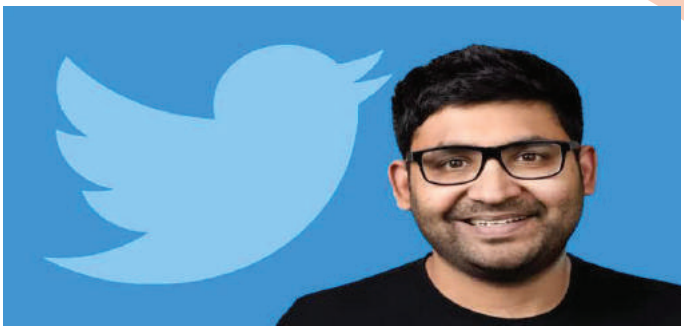
COP 26 pledges need a new climate of cooperation



Recognising climate change as an existential threat to humanity, an optimistic schoolgirl from Tamil Nadu has impressed world leaders with an impressive address at the ongoing UN Climate Change conference (COP26) in this Scottish city, saying she's not just from India but from Earth. The finalist of Prince William's Earthshot Prize, 15-year-old Vinisha Umashankar, amidst the presence of heads of state an government delegations said: "I'm not just a girl from India. I'm a girl from earth and I'm proud to be so." "I'm also a student, innovator, environmentalist and entrepreneur but most importantly, I'm an optimist," she said emphatically in her brief address that got a rousing applause from the audience, comprising Prince William, who stood on stage and proudly listened to her speech. During the summit, the winner and finalists of the Fix our Climate Earthshot displayed their ground-breaking environmental solutions in front of heads of state and government delegations.

This included the AEM Electrolyser from Enapter, who won The Earthshot Prize for their ingenious green hydrogen technology that has the power to transform how to power our homes and buildings and fuel our transport.

Indian Origin Parag Agrawal becomes Twitter's new CEO

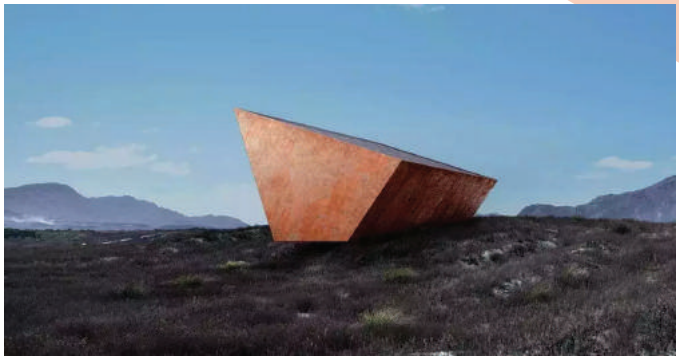


Parag Agrawal became Twitter CEO on Monday after Jack Dorsey announced his resignation. The move was apparently months in the making. There were rumours that the Twitter board was looking to replace Jack Dorsey with someone else. The search, it seems, finally ended with an in-house candidate. Parag, who until now was Twitter's CTO, is assuming the role as the company CEO immediately.Parag, aged 37, is an alumnus of IIT Mumbai. He did his bachelors in engineering in computer science here. Agrawal then moved to the United States to pursue a PhD in computer science from Stanford University under the guidance of Jennifer Widom. He did his schooling from Atomic Energy Central School. Parag joined Twitter in 2011. In 2017, he was promoted to the role of Twitter CTO.At Twitter, as CTO, Parag has been instrumental in "Twitter's technical strategy and overseeing machine learning and AI across the consumer, revenue, and science teams."

SCIENCE **AND TECH**

Earth's Black Box will record every conversation and step taken on climate change for future generations to see

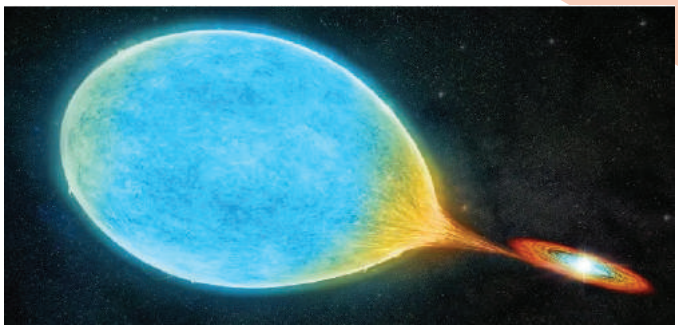
There's no denying that climate change is a cause of concern, one of the biggest in fact at present. To help understand what steps we are taking towards climate change, an indestructible black box will be built and placed on the west coast of Tasmania, Australia in early 2022. Just like black boxes record flight, ships and cars journeys and provide evidence in case of any accident, this black box will record "every step we take towards this catastrophe". "Earth's Black Box" will record every conversation that's made towards climate change for future generations to see what actions we took, and how it led to the "demise of the planet", according to a report by the Australian Broadcasting Corporation. The purpose behind this is to let future generations know what happened, and also to urge people to take immediate action. It will be made with 3-inch-thick steel and covered with solar panels, and it will be built on Tasmania's west coast. Given the area's geopolitical and geological stability, the black box should survive in case something catastrophic happens. The black box will be around the size of a city-bus, and inside there will be storage drives that record climate change conversations and also atmospheric carbon dioxide levels and average temperatures. The storage drives inside Earth's Black Box are designed to last for around 30 to 50 years.



Researchers find world's first warm-blooded fish: Fisheries biologist Nick Wegner holds an opah caught during a research survey off the California Coast in this undated handout photo provided by NOAA Fisheries/Southwest Fisheries Science Center. Researchers have discovered a first fully warm-blooded fish that circulates heated blood throughout its body much like mammals and birds. "It turns out to be a very active predator that chases down agile prey like squid and can migrate long distances," he added. While looking at opah, Wegner recognised an unusual design: Blood vessels that carry warm blood into the fish's gills wind around those carrying cold blood back to the body core after absorbing oxygen from water. The design is known in engineering as "counter-current heat exchange. Resembling a car radiator, it's a natural adaptation that conserves heat. The unique location of the heat exchange within the gills allows nearly the fish's entire body to maintain an elevated temperature even in the chilly depths. "There has never been anything like this seen in a fish gills before," Wegner said. This is a cool innovation by these animals that gives them a competitive edge. "

Astronomers find a star older than the entire universe

Researchers at the Center for Astrophysics, Harvard & Smithsonian have observed a new type of binary star that has long been theorized to exist. The discovery finally confirms how a rare type of star in the universe forms and evolves. "We have observed the first physical proof of a new population of transitional binary stars," says El-Badry. "This is exciting; it's a missing evolutionary link in binary star formation models that we've been looking for." When a star dies, there's a 97 percent chance it will become a white dwarf, a small dense object that has contracted and dimmed after burning through all its fuel. But in rare instances, a star can become an extremely low mass (ELM) white dwarf. Less than one-third the mass of the Sun, these stars present a conundrum: if stellar evolution calculations are correct, all ELM white dwarfs would seem to be more than 13.8 billion years old—older than the age of the universe itself and thus, physically impossible. "The universe is just not old enough to make these stars by normal evolution," says El-Badry, a member of the Institute for Theory and Computation at the Center for Astrophysics. Over the years, astronomers have concluded that the only way for an ELM white dwarf to form is with the help of a binary companion. The gravitational pull from a nearby companion star could quickly eat away at a star until it became an ELM white dwarf. But evidence for this picture is not foolproof. Using new data from Gaia, the space-based observatory launched by the European Space Agency, and the Zwicky Transient Facility at Caltech, El-Badry narrowed down one billion stars to 50 potential candidates. The astronomer emphasizes the importance of public data from astronomical surveys for his work. "If it weren't for projects like the Zwicky Transient Facility and Gaia, which represent huge amount of work behind the scenes from hundreds of people— this work just wouldn't be possible," he says. El-Badry then followed-up with close observations of 21 of the stars. The selection strategy worked. "100 percent of the candidates were these pre-ELMs we'd been looking for," he says. "They were more puffed up and bloated than ELMs.



EDITORIAL

THE INCREDIBLY SANGUINE VISION FOR A DYING PLANET

The incessant squawking of a seagull sent ripples of short-lived waves over a blackened Atlantic. It crashed its way on a desolate ship's deck; grabbing the attention of the captain, only to be found choking on a piece of plastic.... Of course, it was beyond the point of any saving now.

Researchers estimate that the Atlantic's total plastic load is around 200 million tonnes. Retracing every single step of every segment of the plastic load – its carbon footprint from the time its molecules were first dug up from the depths of the earth, will be a story of horror.

We have reached a point where we can no longer deny noticing the changing patterns- rains, temperatures, storms, winds. Everything has changed. Photographer Marcus Westberg writes that the Norwegian archipelago of Svalbard is" perhaps the closest thing we have to a ticking clock". Viewed from the sea, Svalbard seems to be the epitome of the wilderness: a vast expanse of largely untouched water, ice, and islands, free from human habitation and infrastructure, apart from the occasional passing boat that perhaps lost its way in the storm. Unfortunately, climate change all but guarantees an eventual and probably fairly imminent collapse of what is an exceptionally fragile ecosystem.

Climate change is the expression of the problem. The problem is Global Warming – a term we all came across years back in our middle school science textbooks. Climate change is the feedback of the system of the planet telling us what is going on and the feedback doesn't reflect well on our future on this planet.

The decisions that we are making every day about the food we buy, consume, and ultimately dispose of in the garbage cans; the choices we are making about an email- whether to leave it unread, save it to the cloud, delete it, is making an impact. The impact at the micro-level is negligible. Negligible to a scale that it shouldn't be even a topic of conversation and can be neglected like we neglect the differential radius from a calculus formula. As we go up on a macro level, when 7.9 billion people decide a single email's fate, the impact cannot be neglected.

It's the need of the hour to evolve from a system that is inherently exploitative and extractive to a new normal that is by nature restorative and regenerative. To do something unprecedented, the UN Climate Change Conference in Glasgow (COP26) brought together 120 world leaders and over 40,000 registered participants, including 22,274 party delegates, 14,124 observers, and 3886 media representatives. For two weeks, the world riveted on all facets of climate change – the science, the solutions, the political will to act, and clear indications of action. The world is at a cusp of devastation, still, the commitments made by the nations fall short of ambition. Countries stressed the urgency of action in this critical decade when carbon dioxide emissions must be reduced by 45 percent to reach net-zero around the mid-century. The language on coal was significantly weak with the blurry promises of "phasing down".

The two-week conference was a mere completion of the so-called- Paris rulebook and a reaffirmation of the pledge that the countries sort of forgot from the Paris Agreement. The principle of "equity " was removed from the Glasgow dictionary, thus reducing it to a mere act of no actual substance. India too made some very ambitious commitments. India will reduce its CO_2 emissions by 1billion tonnes from now to 2030. It has committed to 50% of energy requirements met from renewable sources by 2030 and has promised carbon reduction of the economy by 45%. These goals though ambitious, aren't unachievable. If our country upholds the principles of climate justice and strives towards nothing less than the complete transformation of our energy systems, nothing can stop it from reaching the state of net zero by 2070.

Loss and damage need to be at the centre of climate discussions, failing to do which will have horrendous impacts. At this hour, the only feasible thing that we can do is to hope that everyone realizes that they are a component of this global machine. The countries who have "historical debts"- the ones who have been emitting greenhouse gases for decades will have to act NOW so that in the next conference, Simon Kofe of Tuvalu doesn't have to deliver his speech standing in his suit and tie, knee-deep in the briny ocean; in a desperate attempt to attract the world's attention towards the struggles of a country on the brink of submergence.

Jahnavi Sachan 2nd B.Tech ME

Crypto-‘bill’-currency : Bill to decide Cryptocurrency fate in India.

‘Cryptocurrency’, though this term was introduced way earlier in 2009, when the first VC (Virtual Currency) Bitcoin was invented; this term became famous at the end of year 2019, when Elon Musk started commenting and tweeting about the Bitcoin and Dogecoin. The security and vulnerability of these crypto-currencies or VC were always put to questions by many tech-experts and even the RBI. The issue of crypto currency (or VCs) was first raised to the limelight when the RBI took the matter to the Supreme Court in 2018. In the course of lengthy arguments, the three judge bench set aside the RBI circular that prevented crypto exchanges from dealing with the formal financial system on grounds of proportionality.
However, the judgment recognized the role of the RBI in safeguarding the interest of financial stability. The main point of the verdict was that there was nothing to show that VC adversely impacted RBI regulated entities and trading in such currencies was illegal. But meanwhile, in the beginning of this year, the Court in Internet and Mobile Association vs Reserve Bank of India found that while the RBI had the power to regulate virtual currencies, the prohibition imposed by it was disproportionate and unconstitutional. The Court held that in the absence of any legislative prohibition, the business of dealing in VCs constituted a protected right of occupation under Article 19(1)(g) of Constitution.
Due to this very reason, a bill is to be introduced in the winter session of the Parliament, to regulate and control VCs in India. The bill would be concerning about the issues involving crypto and can be divided into three levels, each of them would be equally important. The first is its impact on sovereignty. Second is its interaction with financial markets and third is the value proposition that the entire concept of crypto brings to the economic debate.
On observing the trends in artificial intelligence, we can predict that the algorithmic world that will emerge in coming years will stress the very concept of the nation-state that have emerged over the period of time. Block chain technology and by extension crypto are important components of this upcoming virtual world. Some of the variants of crypto such as the stable coin clearly indicate that these are attempts to create systems of money that incorporate features of price stability that imply a parallel monetary system. Thus, unrestricted co-opting of VC clearly dilutes the sovereign function of money creation, clearly impacting the revenues of RBI. Concerns pertaining to money laundering, terrorist threats and narco-trading also come under this category given the high value and anonymity offered by crypto currencies. Moreover, Crypto are introduced to replace physical money but these VCs do not hold any legal tender, in such situations, will bank accept it in discharge of debts or will bank give loans on them considering these VCs as commodities? Since VCs are not legal tenders, they cannot be used in the discharge of debt. Thus, banks cannot accept VCs to close a loan account. At a deeper level, the very idea of VCs and the way they are designed are incompatible with the fractional system of banking. The fluctuations in interbank liquidity require that money supply adjusts to system requirements. If money supply undergoes compositional change in favor of VCs, this ability will be curtailed thus accentuating the crisis. Considering the security and vulnerability of VCs, crypto are not considered safe and have proved to be vulnerable to hacking. Currently the value of crypto keep on fluctuating depending upon the market, thus making crypto unstable and dynamic in nature, hence VCs do not provide monetary stability. Coming to the value proposition, VCs have emerged as a medium of exchange and many countries have permitted VC ATMs. But how does this proposition fare given that considerable advances have been made in the payment systems domain in India. Is it worthwhile that additional competition is introduced in a market that is hyper-competitive? What will be the impact on existing investments in mobile payment and UPI technology? In a nutshell, the bill is supposed to meet many important objectives. The universe of cryptocurrency overlaps with many domains. While there are obvious concerns of money laundering and benami transactions, there are equal concerns with respect to company laws, payment systems and banking, securities and other commercial laws. The issue of consumer protection needs to be addressed and the current laws may have to be reviewed considering this innovation.

Manav Pandey 2nd B.Tech EE

ODDS & **ENDS**

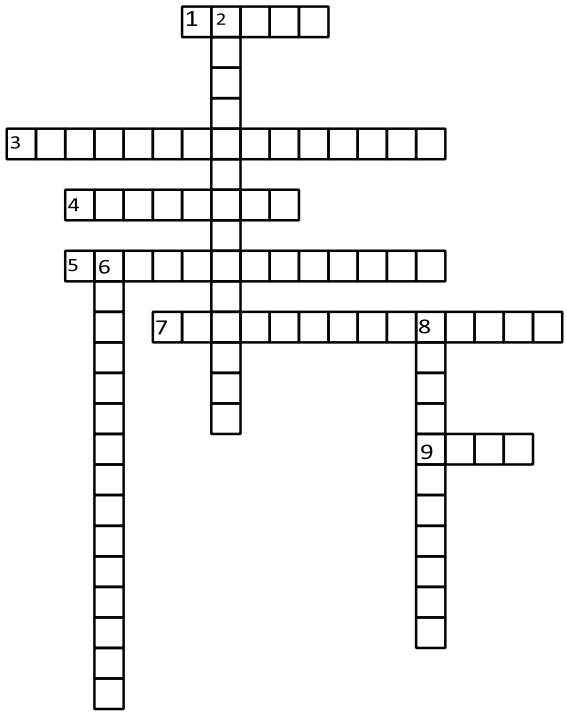
CROSSWORD PUZZLE

Down:

2. The huge and iconic auditorium in west campus
6. The sub-council that brought 5 passionate clubs into 1 week of events
8. The golden bullet shaped object placed deep below the ground in east campus

Across:

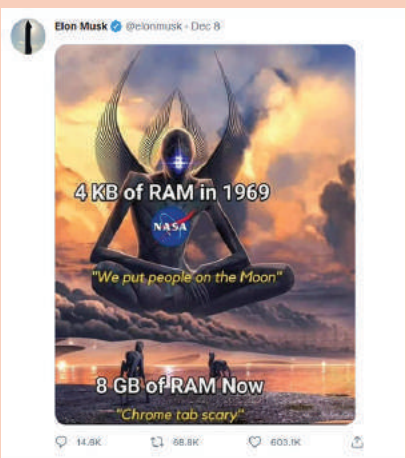
1. The club that prepared this crossword
3. The official book on the occasion of centennial celebration
4. The Lantern festival
5. The giant gate of west campus which is iconic in its own way
7. The name of a new tall structure just in front of main building
9. Something monetary as forwarded by RBI



GUESS THE MOVIE ?

1. Life is a race.. if you don't run fast you will be a broken andaa..
2. Tumhara result decide nahi karta hai ki tum loser ho ki nahi.. Tumhari koshish decide karti hai..
3. Ab raja ka beta raja nahi banega.. ab raja wahi banega jo haqdaar hoga. Utho, padho, ladho, badho aur haqdaar bano..
4. Life mein hamesha wahi nahi jeetta joh zyada taqatwar hota hai ... balki woh jeetta hai jiski jeet se doosro ka bhala ho ... Hitler haar gaya tha aur Gandhiji jeet gaye the ... so darro mat lado aur jeetto..
5. Sometimes the wrong train takes you to the right destination..

TWEETS OF THE MONTH



Answers: 1.3 Idiots 2.Chhichhore 3.Super 30 4.Yaariyan 5.The Lunchbox

CREATIVE **CLUSTER**

अभिलाषा
प्रभु तुम्हारी दया दृष्टि का,
कृपा पात्र बन जाऊं मैं।
नव प्रभात सी स्फूर्ति लेकर,
सबका जीवन महकाऊं मैं।१।

हर तरफ सुगंध हो जीवन में,
रिश्तों की मर्यादा बनी रहे।
भेद न हो कोई ऊंच-नीच का,
जीवन की बगिया खिली रहे।२।

न अहंकार का बोध रहे,
न सम्बन्धों में आए दरार।
प्रेम की सुरसरि सदा बहे,
कर लो प्रभु विनती स्वीकार।३।

अनाचार से कुंठित वसुधा,
संस्कार युक्त हो मुस्काये।
सत्कर्म की बहे अविरल धारा,
धरती ये पावन हो जाए।४।

मिट जाए घना अज्ञान तिमिर,
हर कोना आलोकित हो जाए।
अरुणोदय की सुर्ख लालिमा से,
अंतस का कुहासा छँट जाए।५।

शिक्षा बन जाए सर्वसुलभ,
सुख-समृद्धि घर घर आए।
ज्ञान पताका भारत की,
जग के अम्बर पर लहराए।६।

अग्रणी देश रहे सदा अपना,
विश्व फ़लक पर हो दैदीप्यमान।
सारा जग फिर बोल उठे,
जय हो जय हो भारत महान।७।

अभिलाषा प्रबल हमारी है,
हम विश्व गुरु फिर बन जाएं।
ज्ञान व संस्कृति का परचम,
दुनिया में फिर से लहराएं।८।

Prof. Ram Naresh Tripathi

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

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

मंजिल ढूंढ 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 दरख्तो 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 ...

Satyam 3rd B.Tech CE

Ishika Jain M.Sc 1st year

Ankit Singh 3rd B.Tech CE

माहवारी....अभिशाप नहीं वरदान

अभिशाप नहीं वरदान है, जिसको नापाक बताते हो,
है शर्म नहीं इसमें कुछ भी जिसको तुम पाप बताते हो।

नारी की हंसी उड़ाकर, तुम ममता का मज़ाक बनाते हो,
क्यों छोटी सोच वाले मानव खुद को चालाक बताते हो?

उस दर्द को अनदेखा कर , तुम व्यर्थ विलाप बताते हो,
और स्वेच्छाचारी पाप कर खुद को निष्पाप बताते हो ।

मंदिर जाना प्रतिबंधित कहकर व्यर्थ प्रलाप दिखाते हो,
फ़िर क्यों मस्तक पर मां दुर्गा के चरणों की छाप लगाते हो?

छूत की बीमारी कह तुम जिसको श्राप बताते हो,
पर इसी माहवारी के कारण खुद को बाप बताते हो ।

Shagun Tiwari 2nd B.Tech FT

FORTHCOMING...

In the pursuit of being more adaptable so that we can bring value to our readers, new elements will be added in the upcoming editions of the newsletter.

1)*As the newsletter will be circulated amongst the student body, it must be informative in all sorts of ways, especially R&D being conducted by the faculty here at the university. This will prove to be an aid to the students who with all means are thoroughly interested to be a part of it, clearly encouraging their inclination. Also, providing a very easy gateway to know more about their concerned departments. This will help them in their academics as well. Thus, the new section is all set to be added by this edition.*

2) *Quizzes will be introduced in future editions related to school of engineering and school of chemical technology. The students who outperform their colleagues in the quiz will be awarded certificates of merit by the Sub- Council.*

3)*The new edition will come with a briefly updated "Student Voice" section, to ease out the passage for the unsolved issues, been underlying for a long time.This time, the forthcoming edition would be wrapped around the* ***views of students about the 100 years old university*** *and its legacy, as to where they likely see the university and what should be the goals or what they aspire to accomplish as being a part of 100-years old legacy.*

5)*To increase the technical culture in our university students who are fascinated by "how things work" and "making things work" the university will organize a contest. In this, a problem statement will be given and students have to give a solution related to that statement by making a prototype or presenting the live demonstration of the same, the best solution will be awarded certificates and a cash prize. Further information regarding the contest will be conveyed to you soon.*

4)*Also, PSMSC is all set to welcome the new faces at the university with the competition, where the individuals can send their art-entries and the theme for the competition is "India Art and Culture".*

The winners of the competition (1st 2nd and 3rd) will be felicitated with some goodies and prizes so don't miss out on this one.

The result will be declared in the next edition with the entries of the winners making a way to the column of the newsletter.

Mail your entries to us at printmediahbtu@gmail.com.

The Centenary Celebrations couldn't have been made a memorable one without the combined synergy of the university administration, faculty and students. Team PSMSC thoroughly enjoyed the process and feels privileged to have been a witness to the celebrations. The newsletter has been brought to you by the joint efforts of-

Subhuam Tangar ,Vaishnavi Tripathi,Samana Butool , Ishita Srivastava, Surbhi Chaudhary,Suryansh Tripathi, Jahnavi Sachan,Abhishek Patel, Shibhu Pathak,Aastha Chauhan, Samakshi Srivastava, Archisha Singh, Shantanu Singh,Vaishali Verma,Manav Pandey,,Shubhangi Biltoria, Abhay kumar,Shivangi Kshatriya, Prakhar Tandon,Tarun Pratap Singh, Shalabh Agarwal, Aman Yadav, Swapnil Rastogi,Shobhan Srivastava, Vikas kumar,Mahak Pandey,Priyanshi Porwal,Unnati Kumari, Utkarsh Dixit,Utkarsh Mishra,Aditi Singh,Jasmeen Kour, Ved Prakash Tiwari, Mohd Sameer,Rohit Multani,Ayush Som.