

THE PULSE OF HBTU

FORTNIGHTLY NEWSLETTER

SUNDAY SEPTEMBER 19, 2021











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Felicitation Ceremony at HBTU Kanpur









"A good teacher can change your life" remembering these glorious words by Dr. Sarvepalli Radhakrishnan on the auspicious day of Teacher's Day reminds us all of a teacher who played a major role to help us achieve our goals by inspiring us and thus, change our lives, forever. On the same note, Harcourt Butler Technical University, Kanpur organized a felicitation ceremony in addition to the Teacher's Day celebrations on 5th September 2021 to honor the people who have so much to offer and nothing to ask. This day is also observed as "Shiksha Divas" in Uttar Pradesh.

Chief Guest of the event, Mr. Devendra Singh Bholey, Member of Parliament (Akbarpur) felicitatedDr. Pramod Kumar of Dept. of Oil and Paint Technology, Prof. Raghuraj Sing , Head of Department, Computer Science and Engineeringand Dr. Arun Maithani , Head of Department of Paint Technology. Garlands and Shawls were presented to the awardees. Dr. Alak Kumar Singh, Dean School of Chemical Technologyand Mr. Neeraj Kumar Singh, registrar, alsograced the event with their presence. Keeping the Covid protocols in mind, the event was conducted on both offline and online platforms. Professors joined according to their convenience through online or offline modes, whereas all the students attended the ceremony through online platforms. Overall, the event was well organized with a perfect rhythm. COVID protocols were acknowledged and well maintained. Students showed great enthusiasm and proved to be an active part of the celebration.

NATIONAL INTERNATIONAL

SUNDAY SEPTEMBER 19, 2021

The United States announced the end of its 20-year-old war in Afghanistan



The United States announced the end of its 20-year-old war in AfghanistanThe United States completed its withdrawal from Afghanistan late Monday, ending America's longest war and closing a chapter in military history likely to be remembered for colossal failures, unfulfilled promises and a frantic final exit that cost the lives of more than 180 Afghans and 13 U.S. service members, some barely older than the war.Hours ahead of President Joe Biden's Tuesday deadline for shutting down a final airlift, and thus ending the U.S. war, Air Force transport planes carried a remaining contingent of troops from Kabul airport. Thousands of troops had spent a harrowing two weeks protecting a hurried and risky airlift of tens of thousands of Afghans, Americans and others seeking to escape a country once again ruled by Taliban militants.

PM Modi tops Morning Consult Global Ratings

September 2, Prime Minister Narendra Modi's approval ratings were the highest among thirteen world leaders surveyed by US-based global leader approval tracker Morning Consult. The survey data is updated on a weekly basis.

At 70 per cent, PM Modi is ahead of Mexican president Andres Manuel Lopez Obrador, Italian Prime Minister Mario Draghi, German Chancellor Angela Merkel, US President Joe Biden, Australian Prime Minister Scott Morrison, Canadian Prime Minister Justin Trudeau, UK Prime Minister Boris Johnson and Brazilian President Jair Bolsonaro.Prime Minister Narendra Modi also has the lowest disapproval rating among adults. Of the adults surveyed in India, 25 per cent disapproved of him. PM Modi had the highest approval rating among the thirteen global leaders surveyed last week as well, according to Morning Consult's data. However, in June this year, his approval rating had dipped to 66 per cent. This was nearly a 20-point dip from August 2019 when his rating stood at 82 per cent.

New Development Bank (NDB) by BRICS group of nations admits United Arab Emirates, Uruguay and Bangladesh as the new members on September 2, 2021



The New Development Bank (NDB) set up by the BRICS group of nations said on Thursday it had admitted the United Arab Emirates, Uruguay and Bangladesh as members in its first expansion push. Brazil, Russia, India, China and South Africa a group of major emerging economies known as BRICS – launched the bank in 2015 and started formal talks with potential new members last year. "New members will have in NDB a platform to foster their cooperation in infrastructure and sustainable development," said NDB President Marcos Troyjo in a statement. "We will continue to expand the bank's membership in a gradual and balanced manner," he said. Since launch, the Shanghai-headquartered lender has signed off some 80 projects worth \$30 billion in all of its five member countries stretching across sectors from transport, water and sanitation to clean energy or digital and social infrastructure.

India-US tie up for a Project Agreement for the 'Air-Launched Unmanned Aerial Vehicle'





India and the United States had signed a Project Agreement (PA) in the end of July for Air-Launched Unmanned Aerial Vehicle (ALUAV) under the ambit of the Defence Technology and Trade Initiative (DTTI), the Defence Ministry said on Friday. The PA was signed between the Ministry of Defence (MoD) and U.S. Department of Defence (DoD) by the co-chairs of the Joint Working Group (JWG) on Air Systems, under the DTTI on July 30. "The PA outlines the collaboration between Air Force Research Laboratory, Indian Air Force, and Defence Research and Development Organisation towards design, development, demonstration, testing and evaluation of systems to co-develop an ALUAV prototype," a Ministry statement said. The PA for the ALUAV fell under the Research, Development, Testing and Evaluation Memorandum of Agreement between MoD and U.S. DoD, which was first signed in January 2006 and renewed in January 2015, the statement said. It was a significant step towards deepening defence technology collaboration between the two nations through co-development of defence equipment, it stated.

Army contingent is set to participate in a two-week multination military exercise called 'ZAPAD 2021'

The Indian Army contingent will participate in a two-week multi-nation military exercise named 'ZAPAD 2021' at Nizhny in Russia beginning Friday that is aimed at boosting anti-terror cooperation.ZAPAD 2021 is a 13-day exercise and will end on 16 September. Over a dozen nations will take part in the 'Zapad' exercise, which will primarily focus on anti-terror operations, officials said. China and Pakistan are also expected to take part in the exercise as observers.

Commerce and Industry Minister, Piyush Goyal, appointed as India's Sherpa for G20



The government has appointed Union Minister for Commerce & Industry, Consumer Affairs, Food & Public Distribution and Textile Piyush Goyal as Sherpa for the G20, replacing former Union Minister Suresh Prabhu. The development comes a little over a month before the next summit scheduled at the end of October in Rome. While Italy holds the presidency of the G20 formation, India will be holding the presidency from December 1, 2022 and will convene the G20 Leaders' Summit in 2023."India has been a member of the G20 since its inception in 1999. G20 is a major international grouping that brings together 19 of the world's major economies and the European Union, with its members accounting for more than 80% of global GDP, 75% of trade and 60% of population," the External Affairs Ministry said in a statement on Tuesday. "India will be part of the G20 Troika [preceding, current and incoming Presidencies] from December 1, 2021 till November 30, 2024," the Ministry said. While Prime Minister Narendra Modi leads India's participation, the Sherpa is entrusted with steering negotiations with partner countries on policy issues on an ongoing basis while the leaders meet. The summit usually includes leaders from a few guest countries and representatives from some of the major international and regional organisations. Ministers of Economy and Finance are traditionally invited to attend the event. Apart from India, the G20 includes Argentina, Australia, Brazil, Canada, China, France, Germany, Japan, Indonesia, Italy, Mexico, Russia, South Africa, Saudi Arabia, South Korea, Turkey, the U.K., the U.S. and the European Union. Spain is invited

IN AND AROUND

SUNDAY SEPTEMBER 19, 2021

<u>Prakriti Vandana</u>





On 29th August, 2021 Harcourt Butler Technical University, collaborated with Hindu Adhyatmik Evam Seva Foundation and Paryavaran Gatividhi to organize "Prakriti Vandana", a special program for the worship of nature and protection of environment. The event was graced by the presence of Hon'ble Vice Chancellor Professor Samsher and Hon'ble Registrar Dr. Neeraj Kumar, both of whom provided several implications of conserving environment as well as paid an homage to nature.

The event also took place in the presence of some teachers and students. All the attendees took a pledge to respect and conserve nature and obediently followed the necessary Covid-19 protocols.

Placement Details

1. DCM SHRIRAM (5.75 LPA)

NAME Abhishek Sharma Kanchan Singh Rathore	BRANCH CHE CHE	
2. Bajaj (9.085 LPA)		
Adhish Srivastava	PT	
Utkarsh Tripathi	PT	
3.Exxon Mobil (11.41 LPA)		
Yashvi Jain	CHE	
Swarn Srivastava	CHE	
Aviral Gupta	CHE	
4.Info Edge (12 LPA)		
Shivangi Dubey	CSE	
Samyak Srivastava	CSE	
5. REBEL FOODS (12 LPA)		
Krishnam Dhawan	CSE	
Arjit Jain	CSE	
Sameer Garg	CSE	
Sagarika Jaiswal	CSE	

6. TCS Ninja (3.6 LPA)

NAME	BRANCH
Akash Tyagi	MCA
Amit Kumar Patel	Π
Tushar Agarwal	MCA
Richa Singh	ET

7. Cognizant

NAME	BRANCH	PACKAGE(LPA)
Honey Singh	CSE	6.7
Saumitra Bajpai	MCA	6.7
Upagyya Dixit	ET	6.4
Abhay Pratap Singh	MCA	4
Ishank Katiyar	CSE	4
Hardik Batheja	ET	4
Vivek Sharma	MCA	4

PARALYMPICS

SUNDAY SEPTEMBER 19, 2021

INDIA IN PARALYMPICS



After winning laurels in Olympics-2020 and putting a medal score of 7 (1-Gold, 2-Silver, 4-Bronze), Indian para-athletes in Paralympics-2020 created a history by winning a medal tally of 19 (5-Gold, 8-Silver, 6-Bronze), hence making this India's most successful Paralympic season. This count of 19 medals is even more than the all-previous medal counts combined (12; 4 of each colour). Summer Paralympics-2020 were held between 24 August to 5 September 2021 in Tokyo, Japan.



India won its first and second medal of the season on 29 August, when Bhavika Patel smashed a silver in Tabel Tennis and Nishad Kumar secured a silver in Men's high jump T47. Another set of 5 medals were won on 30 August, starting with Avani Lekhara who clinched a gold in shooting (Women's R2 10 metre air rifle standing SH1), and brought the first gold of the season for the nation. Yogesh Kathuniya won silver in the men's discus throw F56 event (seated). Devendra Jhajharia and Sundar Singh Gurjar brought silver and bronze respectively in Men's javelin throw F46. Sumit Antil closed the medal tally of the day for India with a gold. He won the second gold for the nation in Men's javelin throw F64 by shattering all the previous records of the event. On 31 August, 3 more medals were added to the Indian medal tally, when Singhraj Adhana secured a bronze in shooting (Men's P1 10 metre air pistol SH1) and Mariyappan Thangavelu and Sharad Kumar won



silver and bronze respectively in Men's high jump T63. Avani Lekhara clinched her second medal, a bronze, in shooting (Women's R8 50 metre Rifle 3 positions SH1) on 3 September and became the first Indian women to win two medals in Paralympics. Further in the day, Praveen Kumar gained a silver in Men's high jump T64 and Harvinder Singh earned a bronze in Archery (Men's individual recurve open). Manish Narwal and Singhraj Adhana on 4 September, took part in shooting event (Mixed P4 50 metre pistol SH1) and won a gold and a silver for the nation. Narwal's medal was a third gold for India and Singhraj got his second medal of the season. Fourth gold was won by Pramod Bhagat in Badminton (Men's singles SL3) and Manoj Sarkar won a bronze in the same event making total of four medals of the day. Suhas Lalinakere Yatheraj, DM of Noida, and now a silver medalist in Badminton (Men's singles SLA), on 5 September became first ever IAS to win a medal in Paralympics. Krishna Nagar won the second para-badminton gold for India and hence increased the medal tally to 19. Nagar took part in Badminton (Men's singles SH6).

The Paralympics ended a 13-day run in a colourful, circus-like ceremony at the National Stadium overseen by Crown Prince Akishino, the brother of Emperor Naruhito. The closing ceremony was entitled "Harmonious Cacophony" and involved both able-bodied actors and others with disabilities. After the performances came to an end, fireworks went off and the whole Japan National Stadium lit up. India's 54-member contingent created history at the Tokyo Paralympics to win 19 medals, their best-ever tally in a single edition of the Paralympics by far and finishing inside the top 25 at the Para Games in the Japanese capital. India finished inside the top 25 in the medal table at the Tokyo Paralympics, going past their previous best by 15 medals.

SCIENCE & TECHNOLOGY

SUNDAY SEPTEMBER 19, 2021

Google to offer COVID-19 vaccine slot details through Search, Maps, Assistant



Google also added search support in eight regional languages including Hindi, Bengali, Telugu, Tamil, Malayalam, and Gujarati.

Technology giant Google said on Wednesday it will provide details on COVID-19 vaccination availability, pricing, and location on its various services including Google Search, Maps, and Google Assistant.

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The California-based company started showing vaccination centers in March this year, in partnership with the Ministry of Health and Family Welfare. Starting this week, users across 13,000 different locations in the country will be able to get more information about vaccine availability and appointments powered by real-time data from Cowin APIs, Google said in a statement.

Information regarding vaccine prices at different locations will also be available, the company added. Google also added search support in eight regional languages including Hindi, Bengali, Telugu, Tamil, Malayalam, and Gujarati.

"As people continue to seek information related to the pandemic to manage their lives around it, we remain committed to finding and sharing authoritative and timely information across platforms," Hema Budaraju, Director, Google Search, said in a statement.

ISRO releases Chandrayaan-2 data as spacecraft completes two years in lunar orbit

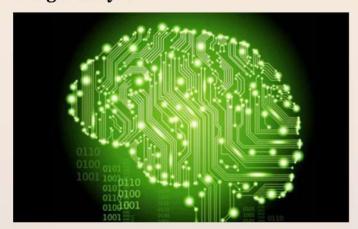
The Chairman of Indian Space Research Organisation (ISRO) K. Sivan on Monday inaugurated a Lunar Science Workshop 2021, to commemorate the completion of two years of operation of Chandrayaan-2 spacecraft around the lunar orbit.

Chandrayaan-2 data product and science documents were released by Sivan, also Secretary in the Department of Space (DoS), along with data from Chandrayaan-2 orbiter payloads, Bengaluru-headquartered ISRO said in a statement. The eight payloads onboard Chandrayaan-2 are conducting scientific observations of the Moon by remote sensing and in-situ techniques, it said. "The science data are being made available for analysis by academia and institutes, for a greater participation to bring out more science from Chandrayaan-2 mission," ISRO said.

The two-day workshop, organised by ISRO, is being live-streamed on the space agency's website and Facebook page, for effectively reaching the students, academia and institutes, and to engage the scientific community to analyse Chandrayaan-2 data. The science results from the eight payloads are being presented by the scientists in the workshop being held virtually.

In addition, there will be lectures on the Chandrayaan-2 mission, tracking, operations, and data archival aspects. Along with the scientists from ISRO/DoS, there will also be lectures on lunar science to be delivered by scientists from the Indian Institute of Science Education and Research, Kolkata, Indian Institute of Science, Bengaluru, and Indian Institute of Technology, Roorkee, it was stated.

Machine learning improves biological image analysis



Scientists use super-resolution microscopy to study previously undiscovered cellular worlds, revealing nanometer-scale details inside cells. This method revolutionized light microscopy and earned its inventors the 2014 Nobel Prize in Chemistry. In an international collaboration, AI researchers from Tübingen have now developed an algorithm that significantly accelerates this technology. Single-molecule localization microscopy (SMLM) is a type of super-resolution microscopy. It involves labeling proteins of interest with fluorescent molecules and using light to activate only a few molecules at a time. Using this trick, multiple images of the same sample are acquired. To create a meaningful picture, a computer program unscrambles the data and compiles the complete image. While the technique can be used to locate molecules with high precision, it has one major drawback—it requires scientists to acquire a large number of images, which makes the process very time-consuming. In an international collaboration, the team of Jakob Macke, Professor for Machine Learning in Science at the University of Tübingen, has developed a new algorithm that overcomes this limitation of SMLM. The joint work with the Ries Group at the European Molecular Biology Laboratory (EMBL) Heidelberg and Dr. Srinivas Turaga's team at Janelia Research Campus (Virginia, U.S.) was published in Nature Methods. Deep learning enables highly accurate single-molecule localization The DECODE (DEep Context DEpendent) algorithm is based on deep learning: It uses a neural network that learns from training data. Instead of using real images, however, the network that learns from training data. Instead of using real images, however, the network that we trained using simulated data can thus also detect and localize fluorophores in real images," explains Artur Speiser, who, together with Lucas-Raphael Müller, was the lead author of the paper. One of the benefits of DECODE is that it accurately detects and localizes fluorophores at higher densities than were previo

Microsoft, OYO team up to digitally transform the travel industry

Microsoft and OYO have announced a multi-year strategic partnership to co-develop next-gen travel and hospitality products and technologies. The duo plan to develop solutions using Microsoft's cloud and AI capabilities that will be geared to benefit clients who operate a small and medium hotel and home storefronts across the world. "This alliance with Microsoft will accelerate the deployment of our products in the hands of small businesses we work with, allowing us to create even more impact through an integrated technology ecosystem available on the cloud for businesses in the remotest corners of the world," OYO Hotels and Homes, Global COO and CPO, Abhinav Sinha, said in a statement. The businesses will have access to OYO's latest technology to manage their guests' experience, and run operations seamlessly along with Azure's security and scalability.

As part of this alliance, OYO will develop Smart Room experiences for travelers on its platform, including premium and customized in-room experiences, such as self-check-in supported by a digital register of arrivals and departures and self-Know Your Customer (KYC) along with IoT-managed smart locks and virtual assistance using Azure IoT, according to their joint statement. Additionally, OYO will start to share existing workloads to Microsoft Azure, adopt the Microsoft 365 suite for better collaboration and productivity and switch to GitHub Enterprise for securely accelerating tech development.

5

CREATIVE CLUSTER

SUNDAY SEPTEMBER 19, 2021

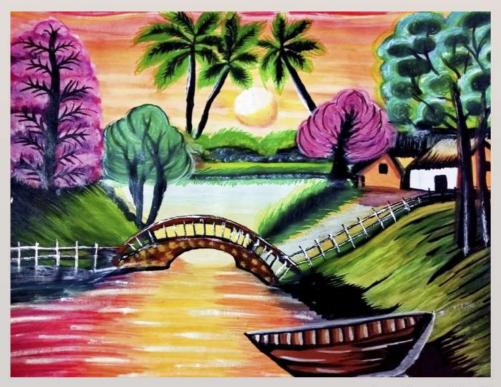


Anushree Trivedi
III B.Tech. Chemical Engineering

तुम दूर होकर भी उतनी ही पास हो,
जैसे पहले थी उतनी ही खा़स हो।
साथ छूट जाने पर रिश्ते नहीं टूटा करते,
वक्त की शाख़ से वे लम्हे नहीं तोड़ा करते।
तुमको लगता है शायद भूल गया हूं,
दिल में पनाह देने वाले आशिक ऐसे नहीं हुआ करते।
मुझे फर्क पड़ता है तुम्हारी हर बात का,
तभी मदद के अलावा शब्द नहीं निकला करते।
कभी मैसेज़ आता पता नहीं क्या हो जाता?
कई दिनों तक तुम्हारे अलावा कुछ समझ नहीं आता।
लग के साहिल को व़फा का दिया बहता,
लाख कोशिशों पर भी उसका रुख नहीं मुड़ता।
तुम दिलो दिमाग में हमेशा साथ हो,
जैसे पहले थी आज भी उतनी ही खा़स है।

Your Quote.in -Keshav

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