

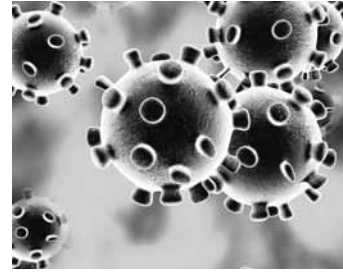
COVID-19 OUTBREAK

60 deaths, 3,943 new cases in TN; Chennai sees 2,393 +ve

KUMAR CHELLAPPAN ■ CHENNAI
Tamil Nadu saw 60 persons losing their lives to Covid-19 while 3,943 new patients getting diagnosed with the pandemic on Tuesday, according to the State Government's media release.

include 57 patients who had co-morbid issues which means they were suffering from serious ailments like diabetes mellitus, kidney malfunctioning, hypertension and cardiovascular problems.

Tamil Nadu continued aggressive testing through 90 laboratories which tested 30,053 patients on Tuesday. The State has till date tested 1.1 million persons...



increase in the number of coronavirus afflicted persons. M K Stalin, leader of opposition and DMK Chief lambasted the Tamil Nadu Government for not releasing district-wise and hospital-wise details of testing.

issued by me over the last three months and tried to follow the suggestions given in them, the State would not have seen such a situation like this," said Stalin.

shifting to the pre-June 19 mode. "The lockdown has seen the number of covid-19 patients going up to almost 4,000 per day. The sick has become more sick while the healthy has become more healthy. Had they allowed the people to move freely, such a scenario would not have happened. I do feel that the Tamil Nadu government has lost direction," said Dr Krishnaswamy.

Didi tops Modi bounty with free grains till June next yr

SAUGAR SENGUPTA ■ KOLKATA
While critics called it the beginning of a pre-electoral battle of bounties Bengal Chief Minister Mamata Banerjee on Tuesday responded to Prime Minister Narendra Modi's extension of free ration package till November --- just around when Bihar elections are scheduled to take place --- with a more-than-matching largesse of free ration that would continue till 2021 June when the State Assembly polls are likely to end.

Not only apps, hit harder: Mamata
Kolkata: Mamata Banerjee on Tuesday said that banning Chinese apps would not suffice and demanded stricter action to teach the north-eastern neighbours a lesson so that they "do not dare look at our motherland."

Operation all out in full steam, 51 ultras killed in June 2020

MOHIT KANDHARI ■ JAMMU
Operation 'all out' is going full steam in Jammu and Kashmir. In the month of June 2020, the joint teams of security forces have gunned down 51 terrorists, highest so far in one month since November 2018.

were active in Pakistan and attempts were being made to infiltrate terrorists into India. In the past many such attempts were foiled and they will be foiled in the future also," he said.

POSTPONE NEET 2020

Parents' Association writes to Ministry of Health

New Delhi: The Parents Association of India representing NEET-2020 aspirants has urged the Union Health Ministry to postpone the national-level medical entrance exam - NEET 2020, to be held on July 26, expressing fear that students might act as a carrier of Covid-19.

Madras HC orders CB-CID to probe custodial deaths till CBI takes charge

KUMAR CHELLAPPAN ■ CHENNAI
Last week's custodial death of the father-son duo of P Jeyaraaj and J Fenix at Sattankulam Police Station in thoothukudi district took a new turn on Tuesday with the Division Bench of the Madras High Court directing the Deputy Superintendent of Police (CB-CID) Tirunelveli to take up the investigation on Tuesday itself as the court feared that there were possibilities of the evidences being tampered with by the accused cops.

threatened by the cops," said the judges. The High Court also initiated suo motu criminal contempt proceedings against ASP D.Kumar, DSP C.Prathaban and constable Murugan, who had made some disparaging remarks against the Judicial Magistrate when the latter went to the station for the investigation. Based on the directions of the court, all the three police personnel appeared before the court on Tuesday. The judges directed them to give an explanation for intimidating the Kovilpatti Judicial Magistrate within four weeks.

"They are giving free ration till the month of November... So we will give it till the month of June next year," Banerjee said reminding that "Bengal is giving a better deal than the Centre insofar as the quality of the rice is concerned as we directly procure the good quality rice from the farmers but they take it rice from FCI ... additionally we are also giving flour along with rice."

required. Earlier on Tuesday the Chief Minister said that her Government was writing three letters to the Centre requesting it to restrict regular flights from hotspot areas to a single flight a week, besides appealing for withdrawal of special laws related to cooperative banks.

Out of this, pro-Pakistan Hizbul Mujahideen terror outfit suffered maximum hits. At least 70 terrorists of Hizbul Mujahideen, 20 each of Lashkar-e-Tayyiba and Jaish-e-Mohammad and rest from different terror outfits were gunned down by the security forces in clean operations.

Interacting with the local media in Poonch, after reviewing the security situation in border districts, DGP said, on Tuesday two terrorists involved in the killing of a five-year-old child and a CRPF jawan last week were eliminated in the village Waghama area of Anantnag.

Stating that on an average more than 15,000 cases are being reported daily and a total number of infected cases crossed over 4.90 lakh as on June 26, the letter noted, "The most important question to be asked is who will take responsibility if, God forbid, anything happens to any student." The association has written to the HRD Ministry as well. Several other parents' associations across India have also opposed the scheduled dates for the exam.

Judges P N Prakash and B N Pugalendhi who examined the autopsy reports submitted by the Forensic Sciences Department and the Judicial Magistrate who investigated the happenings in the police station and the Kovilpatti Jail said that prima facie there were sufficient evidences to doubt about brutality. "The autopsy report speaks about assault marks on the bodies of Jeyaraaj and Fenix. The Judicial Magistrate deputed by this court for an on the spot assessment at the police station was

While the three officials were suspended from service pending investigation, the policemen and officers attached to the Sattankulam Police Station too were transferred en masse. The State Government on its part transferred the district superintendent of police by Tuesday evening.

Meanwhile Tenkasi SP announced on Tuesday that the probe into the death of Murugesan who died allegedly due to police brutality was happening in proper lines. "A deputy superintendent of police level official is in charge of the investigation and we hope to come out with the details soon," said Suguna Singh, Tenkasi SP.

Referring to the central scheme she said that the package announced by the Union Government only covers 60 percent people unlike how it works in Bengal.

On Monday she had launched a circuitous attack against the Centre for refusing to disclose details on the PM CARES Fund, wondering why Delhi was not disclosing the amount it had received.

In the majority of operations conducted in South Kashmir districts, the security forces didn't suffer any major collateral damage and attempts were made to ensure zero loss of life and property of civilians near the encounter site.

The joint operation was conducted by the JKP, 3RR and CRPF in the said area.

According to a police spokesman, during the search operation as the presence of terrorists got ascertained they were given the opportunity to surrender, however they fired indiscriminately upon the joint search party, which was retaliated leading to an encounter.

Murugesan (25) died last Saturday after Police officials who had summoned him to the station in connection with a property dispute case allegedly manhandled him and employed third degree measures.

Taj hotels' security in Mumbai beefed up after threat

TN RAGHUNATHA ■ MUMBAI
A thick security blanket was thrown around the iconic Hotel Taj Mahal Palace near Gateway of India in south Mumbai and Hotel Taj Land's End at Bandra in north-west Mumbai on Tuesday, after the hotel group received a call purportedly from Pakistan threatening to engineer terror attacks along the lines of the 26/11 attacks.

on security matters," Shree Siddhivinayak Ganapati Temple Trust (SSGTT) Chairman and Marathi film actor Aadesh Bankar said. Hotel Taj Mahal Palace, located near the Gateway of India, was one of the targets of LeT fideyees during the 26/11 Mumbai terror attack, in which 166 people were killed and 300 others injured. Apart from the Hotel Taj, the other important targets were Chhatrapati Shivaji Terminus (CST), Cama Hospital, Oberoi-Trident Hotel, Leopold Cafe, Colaba and Nariman House.

Maha sees spike, records 245 deaths, 4,878 test +ve

DEATH TOLL JUMPS TO 7855, INFECTED CASES GO UP TO 1,74,761

TN RAGHUNATHA ■ MUMBAI
Maharashtra witnessed a major spike in Covid-19 fatalities on Tuesday, as 245 fresh deaths were reported taking the total number of deaths 7,855, while 4,878 people tested positive for the pandemic in various parts of the State.

since the second week of March this year, the recovery rate in the state stood at 52.02 per cent. The mortality rate in the state is 4.49 per cent. The state health authorities pegged the number of "active cases" in the state at 75,979.

Not wanting to take any chances, the city police also beefed up security around the famous Siddhivinayak temple at Prabhadevi in north-central Mumbai.

Given that the telephonic threat call came in the wake of Monday's attack on Karachi Stock Exchange, the city police have stepped up security measures at the two five star hotels, Siddhivinayak temple and other sensitive places across the metropolis.

With the 4878 fresh positive cases, the total number of infected cases rose to 1,74,761 in the state.

Of the total deaths reported, 95 occurred in the last 48 hours and 150 deaths are from the previous period.

Following the receipt of calls, the Taj Group of hotels alerted the Mumbai police. Not losing any time, the city police tightened the security arrangements outside both the Taj hotels and launched investigations into the call received by the hotel group.

While the Mumbai Police chose not to comment on the security steps taken by them, the Indian Hotels Co. Ltd (IHCL) -- which runs the Taj Group of hotels -- confirmed that the two hotels had received threat calls.

Of the 245 deaths reported, 95 occurred in the last 48 hours and 150 deaths are from the previous period.

Currently, 5,78,033 people are in home quarantine while 38,866 people are in institutional quarantine.



OFFICE OF THE EXECUTIVE ENGINEER PWD (R&B) CONST. DIV. NO. II, JAMMU
SHORT NOTICE INVITING TENDER
e-NIT No. 36 of 2020-2021/Div-2 Dated 27-06-2020
Executive Engineer PWD (R&B) Construction Division No. II, Jammu Department Jammu on behalf of Lt. Governor of Union Territory of J&K, invite tenders by e-tendering mode from approved and eligible contractors registered with J&K State Govt. Upto 1800 Hrs on 04-07-2020 for the following work.

GOVERNMENT OF MAHARASHTRA
CIVIL SURGEON GENERAL HOSPITAL, GADCHIROLI
Medical Complex, Gadchiroli - 442605
NOTICE FOR E-TENDER
Purchase of AMBULANCE
Civil Surgeon, General Hospital, Gadchiroli, Government of Maharashtra, Invites Proposals from reputed and experienced bidders to participate in the competitive bidding process to AMBULANCE.

NORTHERN RAILWAY
Invitation of Tender through E-Tendering (E-Procurement Systems)
N.I.T. No. 04/20-21 Dated 29.06.2020
Name of work with its location: Supply of potable water through tanker during summer in the S/oADEN/Hort/DLI
Approx. Cost of work: ₹27.99,460/-
Completion period of work: 12 Months

THE KANGRA CO-OPERATIVE BANK LTD.
C-29, Community Centre, Panikha Road, Janakpuri, New Delhi-110058
Phone: 011-25611041, 25611042, 25611043, 25611044
E-mail: leagal@kangrabank.com, legal1@kangrabank.com Website: www.kangrabank.com
PUBLIC NOTICE FOR SALE
In terms of The Securitisation and Reconstruction of the Financial Assets & Enforcement of Security Interest Act, 2002, and Security Interest (Enforcement) Rules, 2002, and in exercise of the powers conferred under Section 13(2) & 13(4) thereof, the Bank has taken over the possession of the undermentioned property.



QUOTE OF THE DAY
My mother said I must always be intolerant of ignorance but understanding of illiteracy. That some people, unable to go to school, were more educated and more intelligent than college professors.
— Maya Angelou

Scholarships on offer

The SRM Institute of Science and Technology — SRMIST, Chennai, India as a member of the India Global Higher Education Alliance of the US based College Board, which conducts the SAT examinations, is offering attractive scholarships up to 35 per cent for students with SAT scores. SRMIST offers exciting options, like the transfer/twinning programme to study abroad after two years at SRM and completing the final two years abroad for the degree to be awarded overseas or after completing graduation or in opting for a top notch job. With over 200 MoUs with universities overseas, the options are unlimited. For an NRI/PIO/OCI seeking BTech degree, the fee is ₹2.5 lacs pegged at the domestic fee, by taking the entrance exam SRM-JEEE and appearing for joint counseling, or alternatively, they can pick their choice of course with attractive scholarships of up to 35 per cent through the direct admission route. The last date to apply is July 15 2020. Those who are NRI/PIO/OCI or Foreigner, can proceed to apply in the International Admission Category, availing amazing scholarships, fee waiver of 25 per cent to 35 per cent under merit and 40 per cent for SAARC and Africa. For more information students can visit www.srmist.edu.in.

The education of an estimated 1 billion students in 130 countries is at a standstill due to the temporary closure of schools to prevent the spread of the COVID-19 pandemic. In India, with the Government considering reopening schools after August, hybrid offline-online learning, minimal contact games, alternate days school, maintaining of social distancing, using of masks and sanitisers, tie-ups with local hospitals will be the new normal.

RETHINK THE NEW NORMAL

Online learning is in the driver's seat today. But that doesn't mean that the current system should be replaced completely. It needs to be understood that the new protocols will be a supplement and not a replacement of the earlier practises, says MANU GUPTA

Institutions need to work with parents, teachers, education departments and local governments to ensure a healthy environment. Due to Covid, teaching has shifted online in the blink of an eye. But finding the right online teaching platforms, using effective techniques and tools is a challenging task for students and parents. It is also true that while remote learning may be suitable for some students, but many more living in rural areas are not as equipped and stand at a disadvantage. The pandemic is far from being over. As schools reopen, briefing and sensitising parents about the new normal will be essential. Formulation of protocols, division of curriculum needs to be monitored strongly. While the academic alignment between teachers and students is being managed through digital tools, physical presence and interaction in school environments is the key to holistic development. **Anxiety, apprehension and anticipation** When it comes to dealing with psycho-social issues, each one is fighting a different battle. Children are scared and stressed, with low motivation levels, even for online studies. Teachers are

striving to remain positive but the challenge to maintain the same level of connection with the students is apparent, and parents are worried if the disruption in children's education will push them a year behind. The institutions along with health experts must brief the parents, teachers and management bodies about the hygiene protocols, physical screening and physical distancing to gain the confidence. Schools must incorporate some behavioral change practices in their curriculum such as washing and sanitising the hands even before getting on the online class to instill a habit and making children understand the importance of taking such safety precautions. Teachers need to be trained about the transition to virtual classrooms with the help of the right online teaching strategies and techniques in order to keep their students engaged in a positive manner. To achieve this goal, teachers and school management will require the active involvement of the parents along with the students.

Classroom teaching is still the ideal way of learning, and this is the best time to evolve innovative ways on how best to welcome children back to schools without compromising their safety. The school authorities will have to be aware that expecting students to immediately adapt to the new normal is an unreasonable ask

The way forward and beyond There is a definite need to create systems that are convenient for students and educational institutions to implement while ensuring safety for all. This does not mean that the current systems should be replaced completely. It needs to be understood that the new protocols will be a supplement and not a replacement of the earlier practices. Classroom teaching is still the ideal way of learning, and this is the best time to evolve innovative ways on how best to welcome children back to schools without compromising their safety. Most schools are likely to open in September, which is a forward-looking step. The school authorities will have to be aware that expecting students to immediately adapt to the new normal is an unreasonable ask. There should be efforts to introduce exercises that ensure good psycho-social health and a happy emotional state for them. Burdening them with loads of syllabus to catch up on will only make them reluctant, anxious and unwillingness to

adapt. Prevention of bullying amongst the vulnerable weaker or younger students is another aspect we should plan to focus on. Administrators, educators, and teachers must realise that the present situation does not warrant a complete overhaul of the education system, rather a few critical parameters, especially on the technological front. While students staying at home and attending virtual classes may currently be the best option, absence of friends and conducive school environments will deprive them of a very vital aspect of their learning and upbringing process. The pandemic has taught us that many unique lessons. India, where education has predominantly been provided by the Government, the need to build resilience into our education systems is being felt stronger than ever before. School has always been more than a building. It is a place for children to learn, to play, to be inspired, and to be safe. The writer is PhD, Co-Founder, SEEDS.

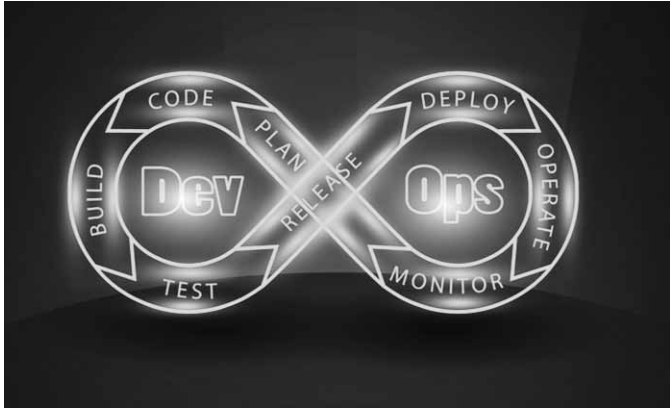
NAT to be held on July 5

PNS ■ NEW DELHI The Vidyamandir Classes, announces the date of conducting the National Admission Test (NAT) Online on July 5, 2020. VMC will award the top performers with upto 100 per cent scholarship towards the tuition fee. The last date of registration for this exam is 8 pm, July 4, 2020. VMC has received an overwhelming response to the Online NAT so far with thousands of students, who have successfully given the test online and taken admissions. NAT is an online national qualifying test designed for students who aim to score high grades in IIT-JEE & NEET by joining the prestigious classroom & online programs. NAT is an exam for admission at VMC and self-analysis for the students. Through this aptitude test students can also review their current potential and realize their academic intellect on the basis of the marks obtained in NAT. Since the past 33 years VMC has a proven track record of success in national competitive exams. VMC will award the Class XII pass students with Early Bird Scholarships which is 50 per cent and 30 per cent on tuition fee for NEET and JEE preparatory courses respectively through NAT. This exam is especially designed for IIT/JEE and NEET aspirants who want to be a part of the top engineering and medical colleges. NAT is an opportunity for the students to qualify and be a part of the methodical training programme of VMC which emphasises on explaining the fundamental concepts of the subjects, and provide mock tests and special sessions for eliminating doubts of the students. The registration fee for the exam has been revised to ₹99 in view of the pandemic. For more information visit www.vidyamandir.com.

DEVELOP YOUR FUTURE

DevOps is being adopted and integrated by most tech companies today, paving the way for an interesting and fulfilling career path. BRIJESH KOHLI shares tips that can help

The world is moving at a faster pace. Enterprises across the world are going through a digital revolution with automation and Artificial Intelligence at the forefront of this paradigm shift. Enterprises that are onboard the digital transformation journey are always looking to strengthen their IT organisation with a workforce skilled in emerging technologies, and this has increased the demand for professionals who are proficient in new-age tools and systems — one such emerging concept is DevOps. DevOps can be defined as a modern strategy used to mitigate IT-related issues impacting software and service delivery. Intended to shorten the systems' development life cycle and provide continuous delivery with high software quality, DevOps encourages an environment of communication and collaboration, within the IT organisation to improve the agility and quality of their delivery. It also helps improve predictability, efficiency, and security and empowers developers with more control to create a better production infrastructure. For these reasons, DevOps is being adopted and integrated by most tech com-



panies today, paving the way for an interesting and fulfilling career path. DevOps engineers work with IT developers towards facilitating better coordination among the various IT-related functions by streamlining and automating the integration and the deployment processes. To be a proficient DevOps engineer, one needs to be adept at certain skills like programming knowledge, system administration, network and storage, infrastructure management and compliance, automation tools, visualisation,

cloud computing, security, testing, and good communication skills. Here, we have explained some of the important skills you need to perfect to become a preferred DevOps engineer. **Programming knowledge:** As a DevOps engineer, you have a huge responsibility for ensuring the smooth running of operations and knowledge of coding languages such as Python, Java, NodeJS, .NET, React, Angular, Ruby, and others can help you understand your roles and responsibilities better. CI/CD: DevOps process

involves a lot of development, testing and deployment technologies for developing automated Continuous Integration/Continuous Delivery pipelines. Continuous integration (CI) combines the work products of individual developers into a repository. Continuous delivery (CD) is intended to reduce the conflicting points which are inherent in the deployment or release processes. **System administration:** System administration includes building, deploying, testing and debugging servers regularly. The person responsible for system administration is directly responsible for the overall health of the system and therefore it makes more sense for the DevOps Engineer to know more about system administration as that helps make decisions regarding automation of systems and servers. DevOps is a growing technology with lots of IT processes dependent on it, professionals tend to move to related roles in a few years, growing in expertise and experience. Apart from a good job profile, one can also expect an attractive salary package. The writer is Director of Xebia Academy Global

Make way for cobots

Collaborative robots, or cobots, are being introduced worldwide to shape the present and future of students pursuing robotics. PRADEEP DAVID tells you how they are different from the conventional robots

As per a report of 2020 by India Brand Equity Foundation (IBEF), India has the world's largest population in the age range of five-24 years. With the youth comprising the very future of India, it is only wise for the country to steer them in the right direction while honing their talent to prepare them for the careers they wish to pursue. Undeniably, this can only be achieved by providing them with a strong, holistic education, complete with the appropriate resources, tools, and exposure. It is no secret that India is especially renowned for its education in engineering, mechanics, and technology. Robotics, especially, is witnessing increased interest. While robotics has made its way as a driving force in the education of more developed countries, India's educational institutes are still not up to the mark, especially considering how imperative it is for universities to provide the right exposure to students, prepping them to be industry-ready professionals. With this in mind, collaborative robots, or cobots, are being introduced worldwide to shape the present and future of students pursuing robotics. Our country is still at a nascent stage of embracing this technology, as a 2018 report by the International



Federation of Robotics (IFR) states that the country has only about three robots per every 10,000 workers, in contrast to developed countries such as South Korea, which has an average of 710 robots per 10,000 workers. It is time to change those numbers and welcome cobots into the world of educational institutions to prepare students for the fourth industrial revolution. Built on the concept of Human-Robot Collaboration (a key tenet of Industry 4.0), cobots are a niche, new type of robots. Unlike conventional fenced robots, they have advanced safety features, including a protective stop that is enabled when an object obstructs its path. This makes them safe to work alongside humans without the need for any cumbersome caging or fencing (subject to risk assessment). This is in contrast to their unsafe, industrial robot predecessors, which require a large amount of space to be fenced off to operate autonomously, as well as programming expertise. Cobots contribute to creating a robotic lab of international repute along with providing the students with all the ingredients at one place. The collaborative technology is deemed fit for the university as cobots are not just user-friendly but also easy to set-up and customise. They enable customisation with their open-source platform, making it ideal for students to experiment with different programmes, and even create their own applications. Slowly but surely, we see that universities across India are turning to incorporate collaborative robots into their curriculum, investing in the technology to facilitate an interactive association between students and technology. By creating a stimulating environment that shapes industry-ready students, cobots empower today's youth to become aware of technologically advanced solutions that can be used by large and small manufacturers alike to place India on the map as a manufacturing hub of global standards. The writer is General Manager, South Asia, Universal Robots

Top honours for AU

PNS ■ NEW DELHI The global higher education rating, ranking and awarding standards organisation, QS-Era has awarded Adamas University, Kolkata, West Bengal, with QS IGAUGE E-LEAD (E-Learning Excellence in Academic Digitisation) certification on June 27, Saturday. This certification is a representation of the results following a verification and validation process to certify the preparedness of institutions to conduct online teaching and learning. "The certification process involved rigorous data-collection, evaluation and assessment of performance metrics as set out in the methodology", noted the QS India head Ashwin Fernandes. Adamas University (AU) is the only other university in East-Northeast India to be awarded so, apart from Bhubaneswar based KIIT University. QS IGAUGE is the Indian arm of global rankings and ratings agency QS, which established the E-Lead: E-Learning Excellence for Academic Digitisation. QS IGAUGE deployed its outstanding global resources to create a global best practices document and methodology, with an aim to do a readiness check of institutions in India in adopting technology and technology-enabled services for online teaching.

E-Yoga Day at Manav Sthali School

PNS ■ NEW DELHI This year, due to the COVID-19 pandemic, the school celebrated Rich Indian Tradition of Yoga on June 21, 2020, E-Yogastic — Let's Heal Our Mind, Body & Soul. Under the sagacious guidance of Mamta V Bhatnagar, Director & Founder Principal, Manav Sthali School, Dipti A Bhatnagar, Principal initiated E-Yoga Day virtually with the staff and students. The event was based on the theme Yoga From Home. Mamta Bhanagar motivated



ed students virtually on this day. The Guest of Honour was Sheetal Verma, a trained & a certified yoga instructor. Mamta V Bhatnagar enlightened the students with her words of wisdom that yoga benefits people of all ages and is suitable for people at all walks of life. She stressed that during these testing times besides staying connected to family and friends, and maintaining a healthy lifestyle, there is also one other thing that can help keep anxiety and mental health in check is practicing yoga.

New high for JGU

PNS ■ NEW DELHI Rankings 2021. These rankings of young universities, which are under the age of 50 years, have just been released by QS, one of the leading and influential ranking agencies in the world. Of the four Indian Universities which made it to the top 150 QS World University under 50 rankings, JGU is the only non-STEM, non-Medicine University to feature in this list. The OP Jindal Global University has been ranked in the top 101-150 Young Universities in the world by Quacquarelli Symonds (QS). JGU is the first and only private university from India and the only Indian university, which solely focuses on Social Sciences, Arts and Humanities to feature in the QS Young University

BE ON THE CLOUD

Cloud computing exists in many avatars, creating a huge opportunity for the Internet and enterprise businesses by offering efficient and scalable solutions, opening doors for lucrative options, says SAIGHIRIDHAR VV



Beginning as an alternative to the soaring IT infrastructure cost, Cloud computing, has, within a short span, become the most defining trend now. Cloud computing is no longer a good-to-have option, but a must have one.

Cloud computing began as an alternative to the soaring IT infrastructure costs, and within a decade it has become the defining trend and it is an initiative that all CIOs must evaluate or consider. According to a report by NAASSCOM, the cloud market is expected to grow 3-fold to \$7.1 billion by 2022. Globally, the cloud spending on IT is growing at 16.5 per cent (CAGR) and is expected to touch \$345 billion by 2022.

Cloud computing has existed in multiple avatars, the present Cloud computing services is not very old. Its impact is creating a huge opportunity for the Internet and enterprise businesses, by offering efficient and scalable solutions for the industry. Many of the emerging cloud computing trends from the industry are entering a phase of high compatibility and scalability.

The standardisation of Cloud engineering, is further opening up new opportunities to support application-level processes with the help of artificial intelligence and high-performance computing.

Given the pace at which cloud computing is getting embraced, 2020 can well become a new door-opener in cloud computing and its developments in various sectors. Starting 2020 and in this decade, we can foresee the following trends that will shape up cloud computing.

SECURITY

The securing user data (Privacy) and protecting Intellectual property is the top priority for every organisation. Increased usage of cloud computing has resulted in a large number of users and their data vulnerable to security breach. Users are being subjected to denial of service, malware attacks, phishing, social data theft resulting in huge financial losses. Increasing cloud secure computing will be one of the key trends to watch for. Cloud administrators and architects will be expected to pay close attention to their business use cases and cover all aspects of securing their Cloud solution to avoid embarrassment and revenue loss.

SERVERLESS COMPUTING

Serverless computing is the new in-demand and it is increasing a growing number. Though clients tend to align with a particular cloud service provider, but many open source solutions are providing serverless computing service across the industry. The serverless model has a conventional structure that uses a pay as you go system giving the flexibility to organisations to have control of their IT Infrastructure expenses.

Increasing cloud secure computing will be one of the key trends to watch out for. Cloud administrators and architects will be expected to pay close attention to their business and cover all aspects of securing their Cloud solution

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EDGE COMPUTING

One of the advantages of cloud computing is its distributed computing infrastructure. Organisations need to be always connected and provide instant access to their customers. Hence the sustainable infrastructure of Edge computing will enable them to meet the expectations and meet ever growing User experience. It is one of the sustainable options for the companies because of its low cost and easy access to data.

HYPER-SCALE DATA CENTRES

This refers to the capability of an IT system or architecture to scale exponentially and ability to respond to change with minimal downtime. Hyperscale data center is reshaping the global IT landscape, shifting data from on-premises computer rooms and IT closets to massive centralized data center hubs.

These cloud campuses offer economies of scale, enabling hyperscale operators to rapidly add server capacity and electric power. Organisations need an elastic IT infrastructure that can scale at an extremely quick pace to meet the dynamic increase and decrease of demand. This

has led to high demand for hyper-scale data centers.

GROWING POPULARITY

While organizations have started to align with a Cloud platform of their choice, fierce & healthy competition in the cloud arena has resulted in the availability of cost effective computing options with rich, feature-centric services, portability between services and flexible billing options. Organizations are now incorporating Multi-Cloud solutions and Hybrid-cloud to achieve flexibility in computing & cost effectiveness. In recent years there is a steep rise in organizations incorporating multi cloud deployment, which is clearly the new norm and the way forward in cloud computing.

ALWAYS CONNECTED

With the ongoing COVID-19 pandemic and organizations likely to adopt work-from-home culture for the foreseeable future, dependence on most of the regular softwares such as email, calendar, engineering / development, collaboration and video conferencing will only witness an upward usage trend with minimal downtime. Cloud came as the invisible saviour to address these challenges.

The writer is senior director of Engineering, TechChefs

‘Join tech-savvy teaching brigade’

COVID-19 has left education institutes little choice but to revise the syllabus for a phygital teaching experience, says RUSTOM KERAWALLA

■ What are the top three reforms needed in the education sector at present?

The present policy lacks emphasis on the public-private partnership model. It should permit the private sector to build social infrastructure to aid holistic development especially in the social sector with an outreach to the underprivileged sections of the society. The private sector needs to be given a greater role. The proposal of three-language learning being made compulsory has not gone down well with many State. It would be a good idea for students to opt to learn their mother tongue. Edtech should be an integral part of the National Education Policy as its perception and application due to the COVID-19 pandemic has changed altogether.

■ Will online education remove the disparity that exists?

While it may not eradicate disparity at a go, it will be the stepping stone in bringing the education eco-system closer. Students from the remote corners of the country will get an opportunity to learn vocational skills which they were deprived off due to geographical and technological barriers. Also, this would uplift the under-privileged sections of the society who cannot afford expensive education. They would now be able to access and learn the same skill-sets at a fraction of the cost and sitting at home or skilling centres in their town or city. This will ensure a level playing field and also give the country skilled labour who in-turn can turn entrepreneurs and become independent.

■ What are the cons of online education?

Online education is at a very nascent stage but is revolutionising at a pace never thought before. While accessibility to the internet is one of its biggest limitations in the Indian sub-continent, the government should at improving infrastructure across the country to make it financially and socially viable. Also, with the widespread outreach will bring down the cost of online education dramatically.

The Government should lay the foundation by providing uninterrupted high-speed Internet coverage, reduce the taxes on hardware for education products like tablets, laptops, smart phones, and servers etc. to ensure affordability even to the economically weaker sections of the society. In addition, there will have to be specialised training of teachers to dispense their skills on an online platform. The teacher will also have to be attuned to the software and the latest trends and will have to regularly upskill themselves. Due to nascency in online education, there would be certain limitations at the earlier stages but those issues will get addressed over a period of time.



Rustom Kerawalla
Chairman, Ampersand Group

■ How important it is for teachers to change their teaching methodology -- due to online teaching?

Teachers don't need to change their methodology in entirety but need to make value additions to their existing style of teaching by incorporating various interactive tools. Many modern schools already have smart classrooms equipped with smart boards, LED screens, projectors, internet, and regularly involve students in interactive conversations with teachers easily operating them. In a modern-day physical classroom, adequate focus is also given to flipped learning in addition to the conventional for of learning.

Teachers who are entering in to the system are conditioning themselves to the new ways of teaching to meet global standards of education to ensure better employment connect. At the same time, teachers from Government and Government-aided schools will have to spend more time in enhancing their skills. Those teachers who were reluctant to adopt technology in their teaching, COVID-19 pandemic has left them little choice to join the newage tech-savvy teaching brigade. The syllabus will also have to be revised for a phygital teaching experience.

A global provider of digital skills training, Simplilearn — announced its findings from a survey conducted on the effects of the COVID-19 pandemic on employee training programmes and productivity post the implementation of work from home. Simplilearn surveyed executives and managers in the Learning & Development and Human Resources functions of companies around the globe on issues related to current and future employee training plans. While responses were gathered from various global regions, the majority were gathered from representatives of companies located in India (39 per cent) and the US (41 per cent).

The COVID-19 global health crisis has disrupted work patterns worldwide, and one of the work areas most affected has been employee learning and development. With businesses implementing online models, there is a rising demand for digital skills training, but at the same time, the work from home scenario has made it impossible to provide in-person skills training. Survey results show that 86 per cent of respondents whose organisations offered physical classroom training have moved to live online learning platforms since the start of the pandemic. In fact, 82 per cent of survey respondents stated that live online learning programs were equally or more effective than physical classroom sessions, with Artificial Intelligence and Machine Learning skilling programmes seeing the highest demand.

Krishna Kumar, CEO & Founder of

MINDIT

Simplilearn, said: “The current global pandemic has posed several new challenges to organisations and businesses across verticals, pushing for the need to embrace digital solutions. Based on our survey results, remote working seems to be the norm for the future, with 52 per cent respondents saying that WFH saw employees being more productive and 77 per cent of respondents predicting that their organisations are considering a permanent shift to work from home. The pandemic and economic slowdown have also brought in the need for organisations and professionals to

focus more on building capabilities in niche skills that would become inevitable for business continuity and sustenance.” Key findings from the survey include:
■ 86% of respondents whose organisations offered physical classroom skills training to their employees before the pandemic have moved those training sessions to online platforms
■ 82% of respondents whose organisations have moved employee skills training sessions online said the sessions have been equally or more effective than physical classroom sessions
■ 40% of respondents said their organisations anticipate making a permanent move to online training, compared to 18% who plan to revert back to physical classrooms (42% said ‘not sure’)
■ 76% of respondents said that due to the abrupt switch to digital-first business environments they expect their organisations to grow their employee skills development programs
Eight per cent respondents said their budgets had increased, 34% said budgets had decreased, and 58% said they had stayed the same.
Other data collected includes:
■ Functional training offered to employees within the organizations who responded includes Digital Operations (66%),

Technology/Software (64%), Digital Marketing (53%), and Artificial Intelligence/Data Science (45%)
■ Functional training prioritised as a result of the pandemic includes Artificial Intelligence/Machine Learning (44%), Digital Marketing (42%), Cloud Computing (42%), and Cyber Security (40%)
■ 73% of respondents said their employees have been as productive or more productive while working from home compared to before the pandemic
■ 77% said their organisations are now considering permanent expansion of “work from home” flexibility for their employees
The overall survey findings indicate that the pandemic has increased the importance and demand for digital skills training.

Scholarship

Candidates will be eligible for this application scheme.
Application deadline: The last date is September 1, 2020.

The Concordia University invites applications for its Excellence Tuition Award for the academic year 2020-21. This programme will help students gain undergraduate level education at the university by covering their tuition fees. Applications of this application are open for all prospective students from around the world.
Eligibility: All countries are eligible to apply. Must have applied for an undergraduate degree course in any field at the university. The following must be provided as accompanying documents of application for admission: Pre-qualification degree, copies of academic transcripts and award, certificates of English language proficiency, a statement, and a copy of passport.
Admission requirements: All applicants must have a high school diploma to get admission to an undergraduate degree program at the university.
Language requirement: The university accepts TOEFL, IELTS, DET, CAEL, CAE, CPE, and PTE.
How to apply: Only after applying for an approved course at the university, all

With the motive to offset the financial burden of the university, the Heidelberg University invites applications for its International Ambassador funding for international students. This support will assist you to pursue a degree at the university by covering your tuition cost up to \$17,000 per year. Undergraduate degree in various subject areas. To be eligible, the applicants must hold a high school certificate. Must attach your academic transcripts, copy of passport, personal statement, affidavit of Financial Support form and evidence of financial support and recommendation letters.
Admission requirements: Candidates must meet all the entry requirement of the university.
Language requirement: You have to accomplish the English language requirements of the university.
How to apply: To be considered for this award firstly, you have to enrol in undergraduate degree coursework at the university and also complete the financial aid application.
Application deadline: The last date to apply is It is November 1, 2020.

ANCHORING AT PR BOLLYWOOD
Location: Delhi
Stipend: ₹15,000 per month
Link: internshala.com/i/4533073
Application deadline: July 22, 2020

CUSTOMER SUPPORT AT LEAF STUDIOS
Location: Delhi
Stipend: ₹10,000 /Month
Link - internshala.com/i/4533074
Application deadline: July 22, 2020

TELECALLING AT CONFOUNDING SOLUTIONS
Location: Lucknow
Stipend: ₹5,000-₹7,000 per month
Link: internshala.com/i/4533075
Application deadline: July 22, 2020

FINANCE AT NIRVANA SOLUTIONS
Location: Chandigarh, Faridabad, Noida, Gurgaon, Delhi
Stipend: ₹18,000 /Month
Link - internshala.com/i/4533076
Application deadline: July 21, 2020

SOCIAL MEDIA MARKETING AT SYFLEX TECHNO SOLUTION
Location: Bhubaneswar
Stipend: ₹5,000 per month
Link: internshala.com/i/4533078
Application deadline: July 21, 2020

CONTENT WRITING AT BUDDYMANTRA
Location: Ranchi
Stipend: ₹3,000 per month
Link: internshala.com/i/4533077
Application deadline: July 22, 2020

MARKETING AT CAREERS DEVELOPMENT GROUP (CDG)
Location: Work From Home
Stipend: ₹10,000-₹15,000 per month
Link: internshala.com/i/4533069
Application deadline: July 22, 2020

STUDY ABROAD

‘Ensure that you know the official website inside out’
One can study at an international university in India. However, one needs to keep a few things in mind, says DR DEVESH KUMAR SINGH

Putting three years of your life in a decent school matters a great deal as how productively you spend this significant period will decide to an enormous degree how effective your life will be. While inquiring about a college, it's basic that you don't make rankings your chief basis. You have to begin early and make the official university site your Bible. Here's a rundown of measures to remember while looking into universities:

Courses and majors offered: Invest time in doing research at the various types of majors the colleges offer, centre prerequisites otherwise known as central subjects, the blend of majors and minors and chances to increase reasonable introduction by methods for concentrate abroad or understudy trade programs. For example, keeping the current scenario of COVID-19 in mind, the need for medical and paramedical courses has increased

manifold as the health industry is facing shortage of resources. Hence, choosing this line as your career is both lucrative for you along with helping you in contributing to nation building.
Campus size and life: College is your shellfish and its assorted variety and size are significant factors also. Huge universities for the most part have more assets like, scholarly fixations and majors, examining offices, personnel, culture, amusement, etc. Little universities for the most part spend significant time in human sciences training and the general experience is typically progressively close.
Location and climate: Though college is an extraordinary chance to investigate the new and obscure, location is one of the key aspects of choosing the right college. Some important facets while considering an institution are proximity to airport, railways station and other modes of transport to travel, availability of corporates and industry in the specific areas for training internship and future job prospects.
The writer is chairman of Noida International University

IN BRIEF

BYJU'S AIMS AT REDEFINING TUTORINGS

The BYJU'S has announced the launch of a comprehensive online tutoring programme that aims at redefining tutorings for school students. With this, students now have access to scheduled online classes from India's best teachers, instant doubt resolution and one-on-one guidance from dedicated mentors, all from the comfort and safety of their homes. In a first-of-its-kind offering, the aim is to provide students all the benefits of personalised after-school tuition classes at their fingertips.
The students can choose from weekday and weekend batches and

attend scheduled online Math and Science classes as per their school curriculum. The students will be assigned a dedicated mentor who will offer one-on-one attention, comprehensive progress reports and also suggest personalised classes to work on topics that they need to focus on. The regular subjective and objective tests will help evaluate a student's performance too.
They are available for students from Classes IV to XII as well as for those preparing for JEE and NEET. The app can be downloaded from Google Playstore or App store.

CENTRAL DIGITAL LEARNING PARTNERSHIP

The Central Books, an online bookstore and complete education portal announced their strategic partnership with EduBrisk, the industry-leading Edtech Digital Platform for K-12 Segment.
The portal has a vast experience in serving schools in Andhra Pradesh and Telangana and this partnership will help empower these schools & school teachers to easily provide online learning to their students during the ongoing pandemic and thereafter. The partnership aims to touch the lives of 1 million students this academic year in this region.
Sudhir Mungala, CEO, Central Digital Learning, said: “I am a firm believer and executor of Blue Ocean strategy with technical integration. We are confident that this partnership is a partnership made in heaven with the young energy of EduBrisk and the legacy of Central Books Group makes us equipped to not just address the need of all the stakeholders but to enable students to continue their learning.”

University said: “The COVID-19 has created utmost disruption in our mundane lives. Many do speculate that the breakout of the virus was purposely intended to take over world supremacy. We should all take an oath to work towards peace and harmony rather than fighting each other.”

VIRTUAL CONFERENCE PLEDGES TO COMBAT THREAT

The MIT World Peace University conducted a four-day virtual international conference on eradication of biological and chemical weapons. The conference saw active participation from across the globe with more than 20,000 plus participants. Through this conference, the university aimed to spread awareness and awaken the youth against bio-warfare. The conference also focused on its end goal of establishing a legal discourse towards curbing research and development of such weapons.
Prof Dr Vishwanath D Karad, founder-president, MIT World Peace

