



SRM
INSTITUTE OF SCIENCE & TECHNOLOGY
(Deemed to be University u/s 3 of UGC Act, 1956)

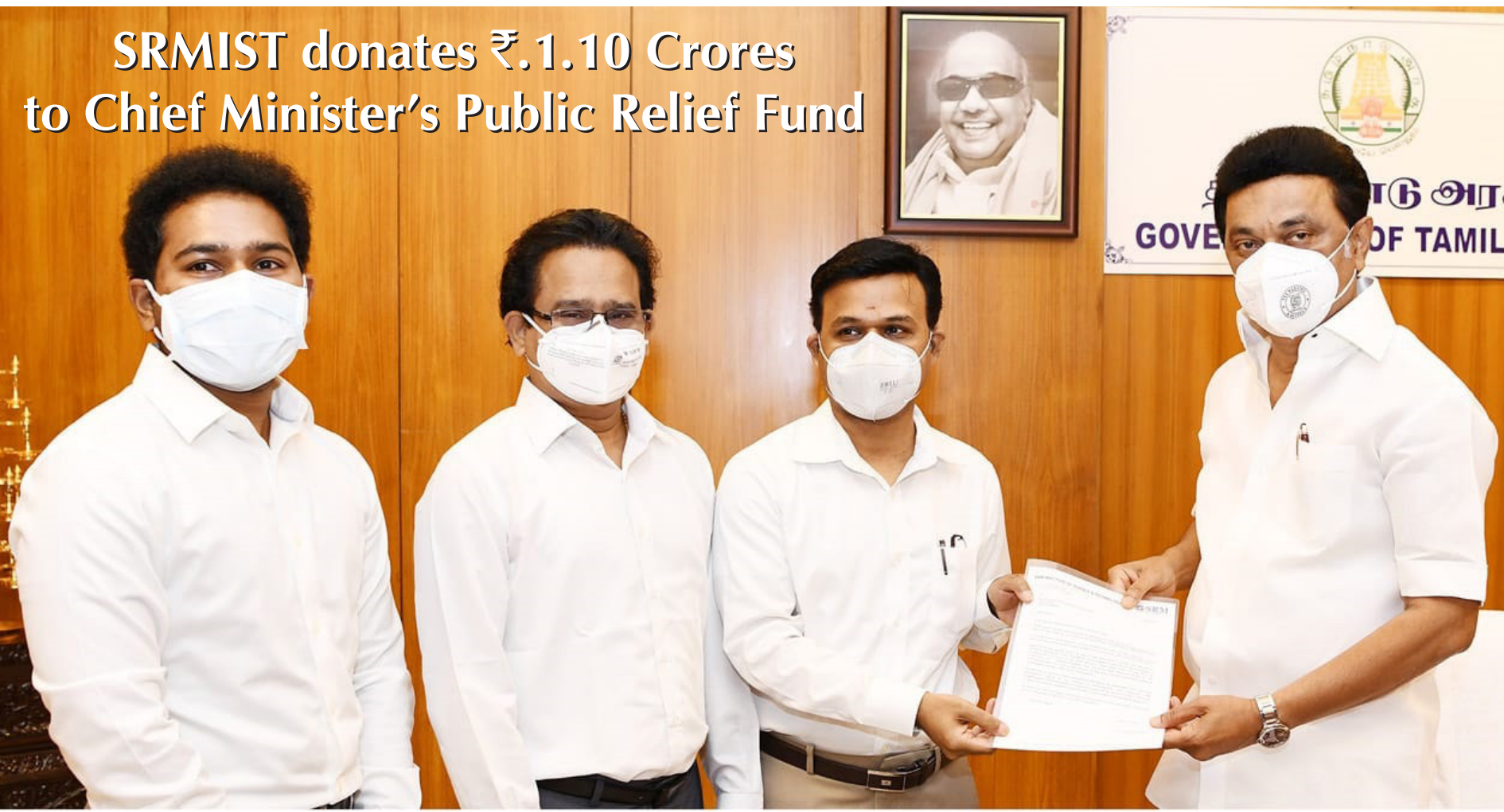
SPECTRUM

The Newspaper of SRMIST

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Volume 14 Number 8

SRMIST donates ₹.1.10 Crores to Chief Minister's Public Relief Fund



SRMIST's Pro Chancellor (Academics) Dr. P. Sathyanarayanan, Chairman of Ramapuram campus Dr. R. Shivakumar and Co-Chairman Mr. S. Niranjan met the Hon'ble Chief Minister of Tamil Nadu Thiru M. K. Stalin and handed over the contribution of Rs 1.10 crores on behalf of SRMIST to fight against the Covid 19 pandemic. Pg.3



National Tsing Hua University of Taiwan presented 10 oxygen Concentrators to SRM's Medical College and Research Center. The Director of International Relations giving this away to the Pro-Vice Chancellor of Medical and Health Sciences and Dean, Medical. Pg.5



SRM ranks No 1 as top Hotel Management Institution in India

STAFF WRITER

SRM Institute of Hotel Management has ranked number one in the top hotel management institutes of Super Excellence in the private institutes' category.

The Institution has also been ranked in the top position in the "Top Hotel Management Institutes of Private in the State of Tamil Nadu"

In a survey of Best Hotel Management colleges 2021 in India conducted by GHRDC, New Delhi (Global Human Research Development Center), SRM Institute of Hotel Management has been ranked first under the category of 'Top Hotel Management Institutes of Super Excellence'.

The Institution has also been ranked in the top position in the "Top Hotel Management Institutes of Private in the State of Tamil Nadu".

The rating has been done on the basis of various parameters like Infrastructure, Faculty research, Consultancy, Curriculum and Placement.

SRM Institute of Hotel Management has been contributing for the development of students and society since its inception in 1993. The institute strives hard in achieving pursuit of excellence in every sphere.

Reporting for Spectrum

- Contributing reports should be confined to a maximum of 250 words and must be written by students only.
- Accompanying pictures must have captions. Pictures without caption will not be published
- Request for coverage in Spectrum by its editorial team must be made well in advance with an accompanying note and the invitation to sridhark@srmist.edu.in
- Coverage of a certain event or receipt of an article does not guarantee publication.

-Editor

SRM University-AP celebrates the high success of maiden Batch Placement 2021

STAFF WRITER

SRM University-AP initiated its journey in the year 2017, and now it is time to bid farewell to the maiden batch of students. The university is proud to share that 92% of the graduating students are placed successfully. About 500 companies visited SRM campuses during the Placement drive, including Amazon, Adobe, Infosys, HealthRx, Bank of America, Standard Chartered and many more who have offered exhilarating opportunities. Students of the founding batch have received one or more job offers in reputed companies with the highest CTC of ` 29.5 LPA an average salary of ` 6.2 LPA, and over 57% offers were Super Dream and Dream offers. The Campus Placement drive is still on and best efforts are put in to ensure that all the students are placed.

Dr P Sathyanarayanan, Founder and President, established this university with a vision of providing quality education to the students who will not only be able to secure a position of their choice but also add value to society. It has been an incredible journey so far, and the students made the university proud with their excellence in academics and extra-curricular activities. "Acknowledging the needs of the hour, SRM University-AP is dedicated to devising strategies to mould students to become global leaders," said Dr Sathyanarayanan.

The university took it as a challenge to find the best job

SRM University- AP believes that every student is filled with numerous possibilities, and they can scale greater heights if their potentials are explored wisely. The students of the maiden batch proved the vision.

offers for its deserving students. The Department of Corporate Relations and Career Services (CR&CS) was deeply involved in providing students with the best training and placement opportunities. SRM University-AP believes that every student is filled with numerous possibilities, and they can scale greater heights if their potentials are explored wisely. The students of the maiden batch proved the vision. "We always bring the best to our students when it comes to their training and personality development. The thoughtfully crafted training sessions, in close coordination with industry and corporate experts, rigorous aptitude tests, mock interview rounds help students to excel in the interviews and placement rounds", informed Mr M S Vivekanandan, Assistant Director, CR&CS. Sri Ritika Katragadda, a final-year student

in the Department of Computer Science and Engineering, secured the highest pay package. She expressed her joy, saying, "Though we were the first graduating batch of SRMAP, the outstanding experience in the past four years in academics and placement training made us so confident that we cracked the long hiring process with ease".

Prof V S Rao, Vice-Chancellor, SRM University-AP, opined, "Our university is the flag-bearer when it comes to inculcating quality, value and excellence among the students in order to make them an asset to the society. The maiden batch placement programme was bound to be a success as it was not a job hunting for our students, rather, finding opportunities to contribute to the society, putting into use their intellect and innovative ideas".



SRMIST donates Rs.1.10 Crores to Chief Minister's Public Relief Fund

STAFF WRITER

The SRM Institute of Science and Technology (SRMIST), Deemed to be University has donated Rs.1.10 crores to the Tamil Nadu Chief Minister's Public Relief Fund (TNCMPRF) in an effort to effectively support efforts of the Government of Tamil Nadu to contain the spread of the second wave of COVID 19 pandemic.

SRMIST's Pro Chancellor (Academics) Dr. P. Sathyanarayanan, Chairman of Ramapuram campus Dr.

R.Shivakumar and Co-Chairman Mr. S. Niranjan met the Hon'ble Chief Minister of Tamil Nadu Thiru M. K. Stalin and handed over the contribution of Rs 1.10 crores on behalf of SRMIST to fight against the Covid 19 pandemic.

Founder Chancellor of the SRM Group of Institutions, Dr. T. R. Paarivendhar, who is also a Member of Parliament (Lok Sabha), Perambalur Constituency mentioned that the amount donated to TNCMPRF was the generous contribution of all employees working in Kattankulathur, Vadapalani,

Ramapuram, Trichy campuses and all other institutions under Valliammai Society to curb the spread of corona virus. It is appreciable that the Honorable Chief Minister of Tamil Nadu has taken timely and earnest action to curb the spread of Corona Virus across the state. In support of the steps taken by the Government of Tamil Nadu, SRMIST has also been playing a key role in treating of COVID 19 patients at its hospitals in Kattankulathur, Vadapalani (SIMS Hospital) and Trichy including providing quarantine facilities with 1300 beds at above Hospitals.



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Hydroponics: future of Indian farming

VEDANT BHARGAVA

Hydroponics is combination of two terms, Hydro and Ponics. 'Hydro' refers to water and 'Ponics' refers to growing, which means growing the plants using only water. By definition, hydroponics is the method of growing plants in a nutrient rich solution. The main idea here is to allow the roots to come in direct contact with the nutrient rich solution in the place of soil. Uptaking nutrients from nutrient solution does not affect any physiological process of the plant. There are different types of hydroponic system such as Nutrient Film Techniques (NFT), Aeroponics, Wick System, Shallow water culture, Deep water culture etc. where different water soluble nutrients and growing medium are used. In hydroponics, plants are not supported by any soil medium such as cocopeat, perlite, LECA (Light Expandable Clay Aggregate) Balls, vermiculite, etc.

An interesting fact is that hydroponic farming consumes 80 -90% less water compared to conventional agriculture. Productivity also increases exponentially as more crop is grown in a fractional area in this method. For example, the average yield per acre for tomatoes is 5 to 10 tons in conventional method while hydroponics efficiently delivers 60 to 150 tons for the same. Hydroponics yields nearly 50 times more than a conventional method.

Currently, world is most

cautious about saving of per drop of water. Water is most precious natural resource. Hence, Hydroponics assures this promise of water saving with a sustainable manner without a loss of single water drop. From abandoned buildings to conglomerates, hydroponics is suitable and adjustable for home gardening. Hydroponics is not only for conserving water and reducing soil degradation but availability of fresh and nutritious vegetable and fruits is another benefit.

According to world population prospects 2019 by United Nations (UN), global population would increase from 7.7 billion (2020) to 9.7 billion (2050) in the next thirty years. This significant growth in the population has been raising a lot of issues viz. climate change,

land degradation and rapid urbanization. Producing abundant food for the growing population will be a mammoth task for the farmers and administrators. In future, this growing population going to demand for enough quantity of food with quality. Therefore, taking into account the aforementioned raising issues, conventional farming is not going to be feasible practice for a longer time and, in future, soil cannot remain fertile as it is.

Hence scientist suggest, the integration of hydroponics with vertical farming is an answer to these issues. This integrated approach of farming will be efficient and sustainable for growing practices in limited space. It is believed that hydroponics would soon turn out to

... the average yield per acre for tomatoes is 5 to 10 tons in conventional method while hydroponics efficiently delivers 60 to 150 tons for the same. Hydroponics yields nearly 50 times more than a conventional method.

conventional farming, specifically for vegetable and fruit production. Moreover, further advancement in hydroponics will be possible with more eco-friendly and

sustainable hydroponics models. In Indian context, hydroponics industry will flourish in very a dynamic manner but it will take awareness as well as practices.





SRM Hospital opens COVID Care Centre with 200 beds

STAFF WRITER

SRM Medical College Hospital and Research Centre (SRM MCH&RC), Kattankulathur has set up a COVID Care Centre with 200 bed capacity in the campus. Out of this 200 bed facility, 100 beds will be for allopathic treatment.

The 200 bed facility was inaugurated by Pro-Vice Chancellor, Medical & Health Sciences, SRM MCH&RC Prof. Lt. Col. Dr. A. Ravikumar. Also present were SRM Institute of Science and Technology's Registrar (Interim) Dr. S. Ponnusamy, Medical (Dean) Dr. A. Sundaram and Dental (Dean) Dr. Vivek among others.

As per the Govt. guidelines and AIIMS, Delhi guidelines, only patients with moderately severe disease are admitted to the hospital. However, a large number of COVID patients are having mild symptoms or remain asymptomatic. They need assisted care for up to a week under supervised Medical and Nursing professionals. SRM MCH&RC receives 150 to 170 patients daily in the Fever Clinic. Out of this, about 30 get admitted to the hospital. Of the remaining patients with mild symptoms some held rest and special care due to the extreme malaise isolated with the disease.

In order to cater to this group of patients, SRM MCH&RC has set up a 200 bed capacity of



Ministry of AYUSH, Govt. of India and Govt. of Tamil Nadu. The proposed COVID Care Centre has sufficient facilities to cater to the needs of these patients. We also have sufficient Medical, Nursing, Para-medical and Support staff to run the centre as per accepted standard of care.

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The Management under the able guidance of SRM Group of Institution Founder Chancellor, Dr. T. R. Paarivendhar, MP and Pro-Chancellor (Academics), Dr. P. Sathyanarayanan have



supported this initiative. of India and Govt. of Tamil Nadu. The proposed COVID Care Centre has sufficient facilities to cater to the needs of these patients. We also have sufficient Medical, Nursing, Para-medical and Support staff to run the centre as per accepted standard of care.

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Prediction of End-Time of COVID-19 Spread in AP using machine learning

STAFF WRITER

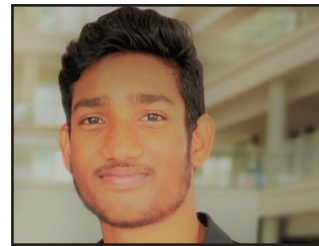
In the current pandemic situation, a pertinent question is an estimate of the time by which virus spread could be contained and normalcy would return. In this context, Prof. D. Narayana Rao, Pro Vice Chancellor, SRM University – AP initiated the study. Dr. Soumyajyoti Biswas of SRM University AP, along with 4 B.Tech Students have carried out an interesting study to predict the end time of COVID-19 spread in the state of Andhra Pradesh. The study employed Susceptible – Infected – Recovered (SIR) Model, making use of the information on the COVID-19 affected people and the recovered number of people, which the Government of AP makes it available through the control command center. SRM Team made use of this data, employed SIR Model and applied the methods of Machine Learning. Study reveals that by July 15th 2021, the rate of infection in AP will be below 100 per day.

With the assumption that the decay rate of infection is same as the growth rate, the model predicts that the number of infected people could be 10,000 (May 21), 15,000 (May 30), 1000 (June 14), 500 (June 23) and 100 (July 15)

The above report has been submitted to the Special Chief Secretary to the Hon'ble Chief Minister of Andhra Pradesh.



Dr soumyajyoti biswas



Sai Krishna



Haneesh Koganti



Suhas Reddy



Anvesh Reddy

Dr. Soumyajyoti Biswas of SRM University AP, along with 4 B.Tech Students have carried out an interesting study to predict the end time of COVID-19 spread in the state of Andhra Pradesh. The study employed Susceptible – Infected – Recovered (SIR) Model, making use of the information on the COVID-19 affected people and the recovered number of people...

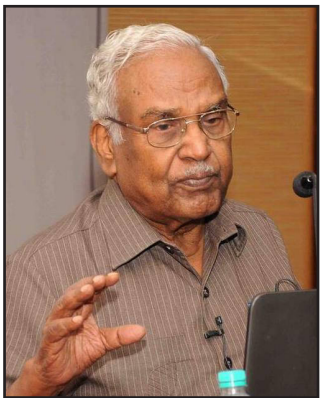
SRM Chancellor condoles the loss of educationist M. Anandakrishnan

STAFF WRITER

Founder Chancellor of SRM Group of Institutions, Dr. T. R. Paarivendhar, MP today condoled the passing away of former Anna University Vice Chancellor and renowned educationist M. Anandakrishnan.

"Deeply saddened and pained to hear about the loss of Anandakrishnan. My heartfelt condolences to his family and friends at this difficult time", Dr. Paarivendhar said.

Born in Vaniyambadi in Tamil Nadu, Anandakrishnan graduated in Civil Engineering from the College of Engineering, Guindy in 1952 and did his Masters and Doctorate in the US.



M. Anandakrishnan.

Expressing shock and grief over his demise, Dr. Paarivendhar said Anandakrishnan, a Padma Shri awardee, not only brought laurels to Anna University but brought several reforms to develop higher education in the State.

Anandakrishnan, who also served as chairman of the board of Governors of Indian Institute of Technology, has also worked as Chief Science officer in the United Nation in the US. A friendly man to all, Anandakrishnan had played a key role in preparing the syllabus for the School Education.

The former vice-chancellor was very bold to point out corrupt practices in the Higher Education Institutions and constantly urged the State government to look into the issue. He also served as an advisor to the Chief Minister of Tamil Nadu on Information Technology and e-governance when IT was at the peak in 2002. He was also the chairperson in the recommendation committee, constituted by the State government, to cancel entrance tests to engineering and professional courses in 2006



SRMIST's Director (International Relations) Kartar Singh presents 10 oxygen concentrators to SRM MCH&RC's Pro-Vice Chancellor (Medical & Health Sciences) Prof. Lt. Col. Dr. A. Ravikumar and Dean (Medical) Dr. A. Sundaram on behalf of National Tsing Hua University (NTHU), Taiwan.

SRM Hospital receives 10 oxygen concentrators from NTHU, Taiwan

STAFF WRITER

SRM Medical College Hospital and Research Centre (SRM MCH&RC) in Kattankulathur has received ten oxygen concentrators from National Tsing Hua University (NTHU), Taiwan as a sign of goodwill to help us battle COVID.

These 10 Oxygen Concentrators were sent as part of the "Love from NTHU, Taiwan" campaign. The money was sourced from voluntary donations from the NTHU Alumni Association and the Centre for India Studies at NTHU. SRM Institute of Science and Technology (SRMIST) is one of the strategic partners of NTHU, through which a dedicated

Taiwan Education Centre has been established on campus, working to build the education and cultural partnership between the university and Taiwan higher education institutions.

On behalf of NTHU, SRMIST's Director (International Relations) Kartar Singh presented these concentrators to SRM MCH&RC's Pro-Vice Chancellor (Medical & Health Sciences) Prof. Lt. Col. Dr. A. Ravikumar and Dean (Medical) Dr. A. Sundaram. In the words of Professor Weichung Wang, Director of the Program Office for Taiwan Education Centre in India at NTHU, who has devoted over a decade in promoting Indo-Taiwan cooperation, the donation was

an outpouring of the concern they feel for the people of India, "SRMIST is one of the most important partners of NTHU in India. Given the years-long partnership and friendship, it was but natural for us to provide this support. It is a very small step in strengthening the hands of SRM Hospital in its fight against the deadly COVID virus". SRMIST has around 20 academic partnerships with Taiwan, leading to student and faculty mobility, and research collaboration. The Taiwan Education Centre at SRMIST is the only centre in India to offer the Test of Chinese as a Foreign Language certificate examination.

SRMJEEE 2021 results announced, counseling to start soon

STAFF WRITER

The results of the Phase I of SRMJEEE (SRM Joint Engineering Entrance Exam) conducted by SRM Institute of Science and Technology (formerly known as SRM University) is announced today (28th May 2021).

Phase I Counseling will start soon for students who have qualified as per the SRMJEEE results.

Phase I exams were held on 23rd and 24th May, 2021 in three slots. The exams were conducted as a home proctored test keeping the safety of the students in view of the prevailing pandemic situation.

SRMJEEE 2021 is being held in two phases. Phase II applications will be available till 20th July 2021 while the exam dates are 25th and 26th July, 2021.

The results for the SRMJEEE Phase II will be declared on 29th July, 2021.

Admissions to B.Tech programmes offered in SRMIST Chennai (Kattankulathur, Vadapalani, Ramapuram and NCR), SRM University - Sonapat, Haryana and SRM University, AP - Andhra Pradesh will be on the basis of the ranks secured in SRMJEEE 2021.

For more details visit SRMIST.edu.in.



Astrophilia Science Congress

DIVYANSH

MANSUKHANI

(Alumni of SRMIST and Currently in the Department of Philosophy, University of Glasgow) and

SNEHANGSU BISWAS

As a scheme to promote both science and philosophy and provide a sense of professorship to the members of Astrophilia and guests, Astrophilia brought on the 16th of April - Science Carnival III. It hosted 12 short modules on diverse topics such as Astrophotography, the fate of Particle Physics, Einstein's Gravity and AI in Astronomy over the weekend. Guests Rashmi Sheoran from the Indian Science Communication Society, Milan Soneri from Sardar Patel University, Srushti Desai from BITS Institute of Physiotherapy, Kshitij Pandey from ICFAI- Jaipur and Divyansh Mansukhani from the University of Glasgow were bothered to instruct the modules Science Communication, Nature of Photography, Caesura and Empiricism and Foundationalism, respectively. More than fifty people across the nation attended the carnival. While this third version could not prove as engaging as the first and second conducted in 2020, the rationale does not suggest SCIII any less successful than others. The organizers expected fewer registrations due to no monetary funds, and essentially because the carnival majorly composed of modules from HASS (Humanities, Arts and Social Sciences), the undermined disciplines in the Indian Academic Structure. "Wise is the one who flavours the future with some salt from the past", CT Jones... Astrophilia looks forward to planning SC IV, and testing the best of its abilities in science communication. (see also pg.12)



Denuvo, A popular DRM

Digital Rights Management in Games - necessary or just a pain?

PRAKHAR BHARADWAJ

Digital Rights Management (DRM) systems, in layman's terms, are anti-piracy solutions which game developers can integrate into their games. These systems are designed to make it more difficult for people to "crack" games and distribute them for illegally for free. A game that uses anti-piracy software, has it integrated into its code and this makes it harder to crack them.

But the problem is that all games get cracked. So basically, game developers hope that their games won't be cracked for a while. But, the time period before a game gets cracked is always uncertain. DOOM got cracked and distributed on the first day of its release but on the other hand Assassin's Creed Odyssey got cracked after 3 months of its initial release. So, players had to buy the game if they wanted to play it within the first three months, which—in theory—should have ensured more sales, but it didn't, thus establishing that people who don't want to buy the game, will wait even a year before it gets cracked and people who want to buy the game will buy it either way. These DRM systems have also been known

...the integration of DRM systems is highly expensive (this causes the price of the game to increase almost 20%) and these also cause performance issues in games and have to be removed in future patches...

to cause performance issues in games. Many big developers like Bandai Namco have removed these systems in future patches to provide the gamers a better experience and have stopped integrating these systems stating that they cannot force anyone to buy their game.

In conclusion, the integration of DRM systems is highly expensive (this causes the price of the game to increase almost 20%) and these also cause performance issues in games and have to be removed in future patches. All this is done just to ensure sales for the first one month on average but shows no impact on overall sales. So, these systems are more of a pain for the users and don't actually serve a purpose.

Apple's 'Spring Loaded' event!

SHASHANK KUMAR

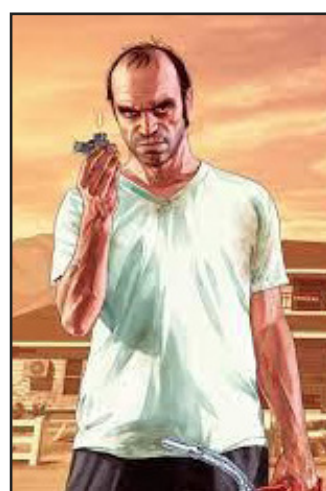
It is no secret that this pandemic has had a detrimental effect on businesses across the globe but tech giants like Apple, Facebook and Microsoft seem to be immune to this. The majority of humans, if not all, are locked inside their homes and, unexpectedly, the demand for computers, smartphones, and other gadgets has increased exponentially. The demand is so high that there is a global shortage of chips and products like PlayStation 5 and Xbox series X went out of stock the moment they hit the market. Apple, the world's biggest tech company, did not miss a chance to pounce on this golden opportunity. The event, Spring Loaded, was shot in Apple park- Apple's gorgeous looking headquarters. The company, which recently entered the streaming wars, launched the new Apple TV 4K with an upgraded Siri remote. The company also released iOS 14.5, the latest version of their mobile operating system. A new, purple coloured variant of the iPhone 12 was also released. The two major products launched were the new iMacs and the AirTags. Apple replaced the bulkier and ageing Intel-powered iMacs with redesigned and 4.5K capable iMacs, powered by their own M1 chips. Not only are the new iMacs more visually appealing but are also significantly more powerful than their predecessors.

The AirTags are tracking devices which can be used by an iPhone owner to track any object these AirTags are attached to, simply by using the IOS' "find my" app. This product,



A collage of Tim Cook, Apple's CEO, and major products launched at the Spring Loaded event.

while not exactly novelty, is a significant improvement over the competition in terms of accuracy and compatibility because it uses the mighty Apple ecosystem. To ensure that no one is tracking a person, instead of an object, a notification will be sent to the user's iPhone if an unregistered AirTag moves with them.



Trevor Philips

Beloved Video Game Characters

M.KAVIN RAMNATH

Video games have always had the innate ability to connect with the player, drawing them into the game world by putting them into the lives of the protagonist. The main factor that helps forge this connection is the depth of the character and how good an impression it leaves. Trevor is one of the three playable protagonists in the Rockstar

game's masterpiece, GTA 5. He's a loyal friend, willing to stand up and fight against all odds. His rage and a unique sense of humour are a cherry on top, making him one of the most loved protagonists ever. Kratos from The God of War needs no introduction. Stoic, bloodthirsty, vicious, and extremely powerful, Kratos is truly a force to be reckoned with. More of an anti-hero than

a hero, Kratos scores as he gives this sense of great power to the player, fuelled by unquenchable rage and a deep storyline. Next on the list is Arthur Morgan from Red Dead Redemption 2. Arthur is a bandit and an outlaw, who people eventually fall in love with over time. With his strict code of honor, undying (literally) sense of loyalty, and a compelling aura, Arthur will hold a special place in

everyone's heart. Last but not least is Artyom, the protagonist of the Metro series. The Metro itself is a touching story and it is truly amazing as people play through it as Artyom. Fearless, strong, level-headed, and determined, Artyom does what he believes is the right thing. He is compassionate to friends and ruthless to foes, capable of dispatching a large number of adversaries on his own.

ICRAMER– 2021 A Researcher's Dream

ISHIKA GHOSH

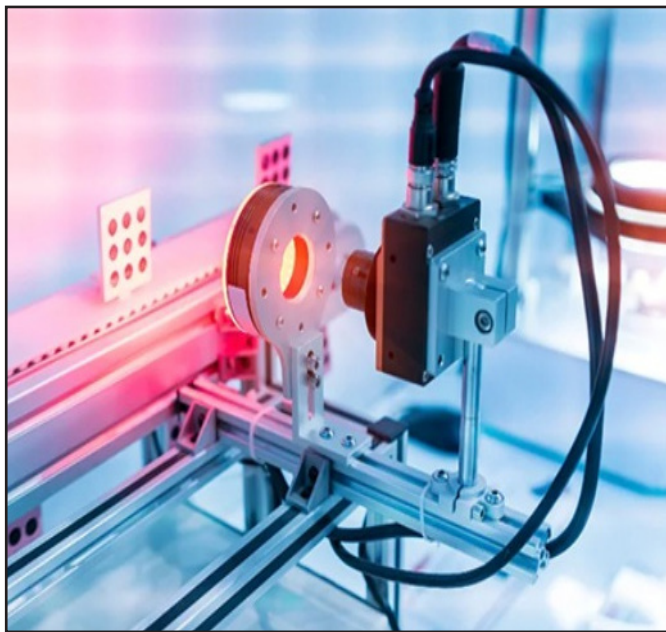
GAUTHAM PILLAI

Manufacturing industry - the backbone of any modern economy

The Department of Mechanical Engineering conducted the International Conference on Recent Advancement in Manufacturing Engineering Research (ICRAMER). On a virtual platform, the event ensured budding researchers learn from the best in the industry and exhibit their research work. The conference aimed to provide a global interaction among the best researchers in the manufacturing industry. April 15th marked the inauguration, and a welcome address was given by Dr. M. Cheralathan, Professor and Head, Department of Mechanical engineering, SRMIST. The chief guest, Prof. Dr. Jaharah A. Ghani from Kebangsaan University, Malaysia, and the 2 guests of honor, Shri. Anantharaman Prakash Vice President, Renault Nissan Technology Centre, Chennai, and Prof. P.

T. Ravichandran, Chairman, IE(I) Kattankulathur Local Centre, addressed the gathering next. 7 keynote addresses were given by 7 academicians, and 143 papers were presented. The conference ended smoothly with the vote of thanks by Dr. M. R. Stalin John, Associate Professor, Department of Mechanical Engineering, SRMIST.

The valedictory function held on the next day was graced by Chief Guest Dr. Prashanth Konda Gokuldoss, Tallinn University of Technology, Tallinn, Estonia, and Guest of Honor, Dr. S. Dhanalakshmi, Hon. Secretary, IE(I) Kattankulathur Local Centre. Dr. M. Cheralathan welcomed the attendees followed by guest addresses. The Best Paper Awards were given out for 8 categories. 5 of them were given to international candidates, and 3 to candidates from outside college. The ceremony was concluded successfully with the vote of thanks by Dr. I. Mary Priya, Assistant Professor, Department of Mechanical Engineering, SRMIST.



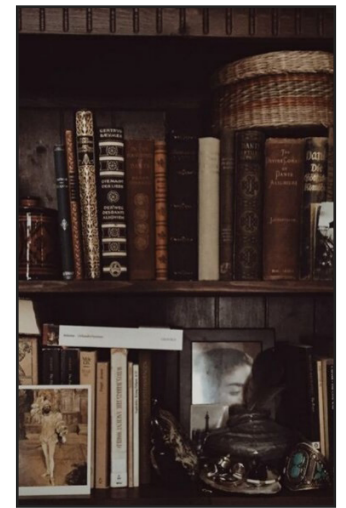
Living with Aesthetics

SHREYA KHERA

Google defines 'Aesthetics' as 'the philosophy of art that examines subjective and sensory-emotional values, sometimes called judgments of sentiment and taste.' As a recent and exponentially growing trend, many people now include 'aesthetics' in their everyday lives. Words like 'academia' which translates to a group or community of people embracing themselves to their own styles and individuality are always topics of discussion. Of many types of academies that exist currently, here are the two largest followed aesthetics:

Dark Academia comprise of people who value knowledge and sophistication with dark colour clothing, corsets, boots, and autumn acting as a fundamental in their lifestyle. Moon, omens, prophecies and other mysterious phenomenon become a source of calmness as well as a form of chaos the people crave. Understanding different languages, embracing oneself, and a thirst to develop a deeper knowledge of our existence, seems like an apt embodiment of this group.

Light Academia, like the name suggests, is the opposite of Dark Academia. Light Academia could be considered as a gentler form of Dark Academia. Being light-hearted, experiencing small joys and spring are the traits one



light vs dark academia

Dark Academia comprise of people who value knowledge and sophistication with dark colour clothing, corsets, boots, and autumn acting as a fundamental in their lifestyle.

would see within this community. While Light Academia also focuses on knowledge and learning, its focal point is the brighter cheerier part of life such as indulging in small joys of life, like picnics by the lake or buying new clothes. While these two types of academia are the most followed ones, there

exist many other academics that hold people's interest from Celestial Academia to so much more. One doesn't have to limit themselves and can create their own aesthetic into creating a space for understanding their core values and desires while guiding the way one sees the world as well as interprets it.

International virtual conference on Language and Literature

LAWRENCE
SWAMINATHAN
ASMITA SOOD

An International virtual conference was organised on the 19th and 20th of April 2021, in order to discuss the Interdisciplinary approaches towards unveiling the boundaries of Language and Literature. This virtual conference was organised by the Department of English and Foreign Languages, College of Engineering and Technology, SRMIST. Also present were Vice-Chancellor (Interim) Dr. C.Muthamizchelvan and Dean (CET) Dr.T. V. Gopal.

The conference was aimed at discussing the academic, scientific and artistic disciplines of language and literature, as well as enabling the students to synthesise ideas and inculcate skills such as analysis, communication, and critical thinking. The conference had over a hundred enthusiastic participants who were graced by the presence of Mr. Nemat Sadat, an established novelist and an LGBTQ rights activist. His book, The Carpet Weaver, which is about a young gay Afghanistan refugee in the 1970's and '80s, was a bestseller of 2019 and the most written about debut novel that year as well. His experience in the field

gave the students an insight into this realm of literature and languages. Along with this, Mr. Nemat Sadat also discussed the struggles of being an author and suggested ways to overcome the challenges and barriers that one comes across while exploring the boundaries of language and literature.

This two-day event also saw the participation of various professors, as well as editors, of leading institutes and publications. With insights from all the dignitaries present, a fruitful session on the interdisciplinary approaches towards language and literature ensued.



*It's not the target nor the finish line that matters.
It's the way we advance towards the goal.*

The art of Zanshin

NATALIA RISHMA

Eugen Herrigel, a German professor, travelled to Japan in the 1920s to burgeon his knowledge of Japanese culture, ergo, he started training in Kyudo, the Japanese martial art of archery. He was taught by the legendary archer Awa Kenzo. Kenzo was a firm believer in teaching beginners the fundamentals before attempting to aim at a live target, and he took this approach to its extreme. Herrigel questioned Kenzo of his approach to which he simply replied “Come see me this evening.”

That evening Kenzo proved he could hit double bullseye without the sense of sight. Blindfolded, the master archer was able to reproduce the exact sequence of internal movements that led to an accurate shot. This relation is known as Zanshin. The word Zanshin translates to a state of relaxed alertness, repeatedly

emphasized in Japanese martial arts. It means to espouse living your life deliberately and purposefully rather than haphazardly succumbing to adversity.

We gravitate towards stationing de trop focus on whether or not the arrow reaches the mark because we live in a world bedevilled with performance. Throwing that fervour, focus and candor into the process—where we place our feet, how we grip the bow, how we exhale during the release of the arrow—then hitting the bullseye is simply a side effect.

The idea is to not be perturbed with hitting the target. It's to cascade into the monotony of doing the work and embracing each checkpoint of the process, to take the moment of complete awareness and travel forward. It's not the target nor the finish line that matters. It's the way we advance towards the goal. Everything is aiming. Zanshin.

Top Five Tourist Spots in the World

JELSIA ALEX

‘Nothing can be pleasanter than travelling and discovering the magic revolving around us.’

Travelling is the best way to discover oneself and the world around. Unplanned journeys always turn out to be the best adventures. Here are a few incredible places that a traveller must visit at least once in their lifetime.

The first on the list is Borobudur, Indonesia. Decorated with 504 Buddha statues, it is the largest Buddhist temple in the world. It was built in the 7th century and is estimated to have taken over 75 years to construct. Then comes the Louvre, Paris, the world's largest art museum, built in the 12th century. It houses around 38000 objects in total. At third, there is the Forbidden City,

China. Constructed between 1406 to 1420, it served as the home for several Chinese emperors. It comprises 980 buildings, encompassing 8868 rooms in total. Then comes The Stone Faces of Bayon, Cambodia. It is a Buddhist–Hindu temple built in the late 12th century. It holds smiling stone faces on its towers which people believe are the faces of Buddha and the Hindu God Brahma. It is one of the oldest stone carved temples, closely followed by the Prague Castle, Czech. It is the largest ancient castle in the world and is one of the most visited tourist attractions. It holds a large number of Christian relics, art treasures, and historical documents.

Travelling can make one realise that each one of us holds a special place in the world. There are ample places to discover and a lot to learn from each moment.



Age is no barrier when it comes to travel

Struggles of a soldier and his families

TARUN NEGI

A soldier one of the greatest assets of any country, safeguards the honor of his country. They are the guardians of the nation and protect its citizens at all costs. Military families encounter opportunities and challenges in life, just like any family does, but they face a few unique problems. The nature of military service can exacerbate those problems or introduce new ones. As a result of duty assignments, members of the military are often separated from their

families for lengthy periods of time and sent to distant, dangerous, or unknown locations. A family that loses the active presence of a parent through separation faces significant challenges and stress. During the parent's deployment, family members may feel isolated, unsupported, and anxious. They may also experience financial stress. Media coverage of events can also increase concern.

The impact of the challenges and opportunities of military life can be shaped by the duration and timing of these events as well. For example: during

deployment, parenting a child may be particularly stressful since the burden of caring for younger, less self-sufficient children without assistance makes it difficult to maintain regular routines.

Reunion of a military family after a long deployment is a cause for celebration. Some patience and understanding will go a long way to help the whole family successfully reunite with a minimum of problems. While most families cope successfully with the stress of the deployment and following reunion, problems can also develop.

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ICAMED-2021

PRANAV. V

AARYAN SHARMA

ICAMED-2021 (International Conference on Advances in Mechanical Engineering Design) was held virtually on the 3rd and 4th of May, 2021. It was organized by the Department of Mechanical Engineering, SRMIST Kattankulathur.



Scholars from various parts of the world came forward to be a part of this event.

The conference aimed to bring together leading academic scientist, researchers and research scholars to exchange and share their experiences and research results on all aspects of Applied Mechanics, Engineering and Dynamics. It also provided a premier interdisciplinary platform for researchers, practitioners and educators to have a discussion and present the most recent innovations and trends. The conference also included practical challenges and their respective solutions adopted in the wake of creating newer opportunities in addressing the emerging requirements in the society. The conference focused on the recent topics of design engineering where various sessions were conducted on recent topics ranging from designing concept to the simulation of concepts further digging into enhancing the product life. As the participants discussed, one of the main purposes of engineering design is to provide a solution to a problem by applying scientific knowledge and in doing so it also becomes important for the design to have an aesthetic look with an enhanced product life. For any design engineer, it becomes necessary to look into the need of the design, research the possible designs, selecting the most promising design, evaluating the design, communicating the design and re-design if required.



IAD affects a lot of people in the world today.

IAD in Teenagers—A Growing Danger

B. SHANE PRANOY

Internet addiction disorder also referred to as the overuse of the internet, has become common worldwide. Although the internet is being used by people of all age groups, young people seem to be more vulnerable to it. Studies show overuse of the internet negatively affects the health of youngsters. The relationship between digital media usage and mental health has been a research topic of great importance across various disciplines. Video gaming is considered to be one of the most addictive forms of using the internet. Anxiety levels tend to be high in gamers, and they also tend to suffer from other health-related issues, such as obesity.

Internet addiction has not been recognized as a disorder by the WHO; however, it has been recognized as a mental health problem in various countries with cases and studies. Studies in Europe and China have proven that youngsters who use the internet excessively are more likely to develop depressive symptoms and anxiety. It also might disrupt their social lives, causing difficulty to appear in public and maintain a balanced social life. It has been proven that internet addicts can have introversion and poor face-to-face communication.

Video gaming, online gambling, binge-watching, excessive use of social media, and compulsive online shopping are all linked to internet addiction. Since the pandemic had started, cities in India have seen a 100% surge in internet traffic as all offices and educational institutions have switched to a digital form of work. However, as easy and safe as it sounds, digitalization will cause problems in the future, especially to kids between the age groups 5-19. They choose to stay indoors and use the internet, rather than stepping out and exploring the real world.

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ICPERES 2021

ANAHITA GUPTA

LAKSHMI VIBHA

Organized by the Department of Electrical and Electronics Engineering, SRM IST, KTR, the International Conference on Power Electronics and Renewable Energy Systems (ICPERES 2021) was held virtually from 21st to 23rd of April 2021.

The occasion offered a platform for research scholars, academicians, and industrial experts for mutual exchange of new ideas and research findings in the latest emerging renewable energy systems. The conference encompassed presentation of more than 80

technical papers contributed by participants from various countries with the presented papers being incorporated in the Conference Abstract Proceeding. Topics in the field of Communication, Computing, Power Technologies, Intelligent Techniques in Engineering Systems, and many more were discussed.

The invited speakers consisted of globally recognized experts in the respective fields viz., Dr. S. Akhtar Kalam, Dr. Sidhartha Panda, Dr. Vivekananda Mukherjee, Dr. Ramazan Bayindir, and Dr. Anup Kumar Panda. Other members included Dr. T. R Paarivendhar, Chancellor,

Mr. Ravi Pachamoothoo, Pro-chancellor (Admin), Dr. P. Sathyanarayanan, Pro-chancellor (Academics), Dr. R. Shivakumar, Vice President, SRM IST, and many other speakers and renowned professors from across the globe.

The conference helped bring together interdisciplinary teams to pave a new path that goes beyond the current development and upgrades the technical expertise for the benefit of society at large. All the selected papers presented at the conference earning a chance to be published in Scopus Indexed, Lecture Notes in Electrical Engineering, Springer Series.



A still from ICPERES 2021

Activities at SRM University Delhi - NCR, SONEPAT

Student discussion forum – students' club: "CHHAAP"

Topic: Who is to be Blamed for the Current Covid Crisis: The People or the Government

On May 11th 2021, the departments under Humanities and Social Sciences (English, Economics, Political Science and Psychology) at SRM University Delhi-NCR organised an event under the banner of its students' club CHHAAP. In this event, more than 50 students joined virtually to discuss and present their opinions and views on the sensitive topic of utmost relevance in present times, "Who is to be Blamed for the Current Covid Crisis: The People or the Government". This discussion was further followed by a Q&A session.



Webinar: Digital Transformation: Opportunities and Challenges

On the occasion of National Technology Day on 11th May 2021, which earmarked the technological breakthrough inventions by India, Department of Computer Science & Engineering, SRMUH organized an online Webinar on «Digital Transformation: Opportunities and Challenges». The keynote speaker for the session was Dr. Prabhat Manocha, Director-Government, India/South Asia, IBM. The expert delivered a mind triggering presentation on "Digital Transformation: Opportunities and Challenges". Dr. Prabhat emphasized the importance of digital transformation in Industry revolution 4.0 and answered students & faculty queries during interactive sessions satisfactorily. The objective of this Webinar was to address the technological advancements and its challenges in the field of digitalisation that had crept into the contemporary world.

Expert Talk: Career Aspects in Electronics and Communication

An expert talk on "Career Aspects in Electronics and Communication" was delivered on 7th April, 2021 by Dr. Himanshu Kumar Haran, Scientist, DRDO, Bangalore.

Department of Electrical and Electronics Engineering

Patent from Australian Government on "Smart healthcare solutions for patient monitoring and predicting pathological status using AI and IoT-Based Technology"

Dr. R.B. Dubey from EEE Department has recently

been granted and awarded with Patent from Australian Government on "Smart healthcare solutions for patient monitoring and predicting pathological status using AI and IoT-Based Technology" with Application No: 2021101734 on 6th April, 2021.



Webinar: Emerging Technologies In Power Sector

The Department of Electrical and Electronics Engineering organized a webinar on "Emerging Technologies in Power Sector" on 1st May, 2021. The industry expert speaker for the occasion was Mr. R. Senthil Kumar who is currently working as Assistant Director (Training Division) Power Systems Training Institute under the Ministry of Power, Government of India, Bangalore. He emphasised that Electrical and Electronics Engineering is an evergreen branch and there are impressive growth opportunities if any student wants to pursue their career in Electrical and Electronics Engineering.



Webinar: Advanced Welding Technology

The Mechanical Engineering department conducted a webinar on "Advanced Welding Technology" on 3rd April 2021. The speakers for the occasion were Mr. Amrit Yoga, Manager, Panasonic India and Dr. Bhuvnesh Sharma, Assistant Professor, SRM University

Webinar: Managing Yourself Effectively In The Era Of Disruption And Volatility

On 10th April, 2021, the Faculties of Management and Commerce jointly organised a webinar on the "Managing yourself effectively in the era of disruption and volatility". The speaker for the occasion was Mr Ankit Mahajan, Media Analytics and Insights Manager, PepsiCo, London. Mr. Mahajan said that if the organisations, lifestyles and habits of the consumer have changed, so have the skills for careers and jobs, and they will change in the coming years too. During the lecture, the speaker shared several interesting anecdotes from his life, with the students. Concluding his lecture, Mr. Mahajan asked the students to make their own Flying Wheel and write their own success stories.



Maggi Baisakhi Special Contest in Collaboration with SRM University Sonapat

An amazing event called Baisakhi Special Contest was organized by Brand Nestle Maggi in collaboration with SRM University Delhi-NCR, Sonapat on 26th & 27th April, 2021 giving the chance to students to prepare innovative & delicious recipe using Nestle Maggi. This was a unique concept to create something out of the box. The hotel management students of SRM University participated in the event and presented their recipes in a most innovative manner. Ms Ishika, Ms Diya Rai and Mr Arpit Suri achieved the first, second and third position respectively. The E-Vouchers were given by Nestle to all the Winners and the host of the competition-Ms Sanskriti Singh.



Mankind's first flight on Mars

The Success of Ingenuity

NANDITA
BHYRAV BHATLA

April 19th 2021 marked a historic milestone in technology when NASA's Ingenuity helicopter took flight on the red planet. But how difficult is it to fly a helicopter on Mars? To put the event into perspective it is important to note that the record for highest take off for any helicopter on Earth was 8,848m (Everest) but the pressure there was still much higher than Mars. The intricacies and magnificence of Ingenuity are infinite, but a couple of key obstacles that NASA had to overcome were thin atmosphere and power sufficiency.

Though the gravitational strength on Mars, being a third of Earth's, helped NASA's Endeavor, the substantial decrease in atmospheric pressure caused an issue. The aircraft needed to be incredibly lightweight at

about 1.8 kilograms, with rotors spinning almost 4 times faster than any helicopter on Earth—at about 2400rpm. Only with this combination of physical attributes would Ingenuity be able to develop enough lift for takeoff.

However, the problem of power remained. During the day on Mars, the planet only receives about half the solar energy that Earth receives. To complete its mission, Ingenuity needed to save as much energy as it could carry. The helicopter was packed with solar panels and electrical heaters to sustain the rough climate all within its 1.8kg weight limit.

Ingenuity is the dawn of scientific advancements on foreign planets. With the ability to fly, space organizations around the world can have a better understanding of how our universe works and what lies beyond our planet.

Why should the media be unbiased?

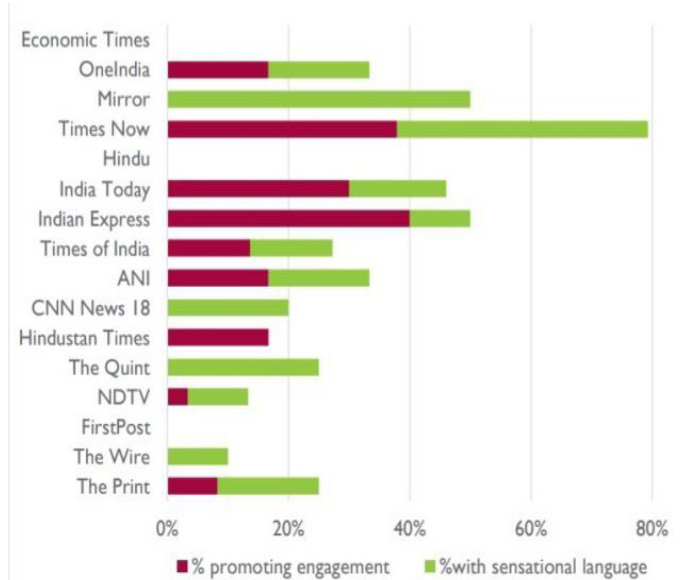
V.REVATHI AISHWARYA

The events of this past year have created a perfect atmosphere for spreading misinformation — A survey found that over 60% of the Indian population view misinformation as a major societal issue. According to a study published in the International Information and Library Review (IILR), wrong information, bigotry related to nationalism, ethnicity, politics and gender is frequent in India.

In 2020, misinformation regarding health and public authority actions was rampant. The reasons for this spread include the lack of digital literacy among netizens, inadequate governmental monitoring and unregulated and unethical competition among mass media organizations.

A Harvard study points to a drastic change in the incentives of mainstream media due to the content being circulated online. They now prioritize metrics such as website traffic, page views and trending topics. The use of hashtags, slogans to drive up the virality of news stories and venturing into the territory of activism is damaging the quality of journalism. The

How do incentives manifest themselves in mainstream media content on Twitter?



The statistic provided in the Harvard study on Media Manipulation.

statistic below compares the use of sensational language and promotion of individual engagement in circulating the news. In this context, sensational language pertains to the use of emotional narratives and fear-mongering.

On the other hand, an article published in the Economic Times indicated that a majority of Indians consider print media (62%) the most credible followed

by radio (57%) then the news media (56%). This discrepancy only highlights the need for media evaluation tools that can weed out opinions and selective reporting. Thus, in today's world, where it is increasingly scarce to find unbiased information, print and news media have an increased social and ethical responsibility to deliver the information with a non-partisan and comprehensive view.

Virtual National Conference on The Transformation of Technology in Higher Education – A discussion on the Silver Lining

NANDINI NIGAM
RITIK SHRIVASTAVA

The Virtual National Conference on Transformation of Technology in Higher education was a two-day event that took place on the 27th and 28th April, 2021. It was organised by three colleges in tandem. The first one is School of Commerce & Business management, Central university of Tamil Nadu, Thiruvavur, the second one being School of Management Sciences, Central University of Jharkhand, Ranchi and the third one is College of Management, SRM Institute of Science and Technology, Chennai.

The conference was a virtual event that brought to light, the

advancement of technology in the field of education over years and how this pandemic, unlike almost every other industry and specialised field, has played a pivotal role in accelerating this advancement. The conference invited various professors and presenters from all over the country who provided their unique insights and ideas which was the major highlight of the event. The conference focused on the advancements and adjustments made in the last year to fit the requirements of today's scenario of the new normal. It threw light on how the technology of the new age played a vital role in making education more accessible during the time of a global crisis. The event also concentrated



The Virtual National Conference held discussions on the silver lining which presented itself in the form of rapid tech advancements due to the pandemic.

on the theme of maintaining psycho-physiological health among the students. The hard work of all the organisers and

volunteers made the event a great success. The event was filled with enthusiasm and active participation and brought

to light some rather interesting angles to this situation which would not have been possible without this platform.

Paranormal Investigation: Career or Hobby?

MAYANK JHA

Before discussing whether paranormal investigation is a hobby or a career, one should understand what the term exactly means.

Paranormal investigation is the investigation of reportedly haunted locations. Typically, a paranormal-investigating team

attempts to collect evidence supporting paranormal activity, such as phenomena related to ghosts.

The concept of paranormal investigation and the presence of investigators dates back to the 18th century. However, it only popularized in the early 1920s. Ed and Lorraine Warren were the most notable paranormal

Paranormal investigation is still not recognized by society as a proper individual career. However, with the rise of social media platforms, it can become a full-time career

investigators responsible for changing public opinion about paranormal phenomena in a time when people considered it to be a farce. They found the New England Society for Psychic Research (NESPR), the oldest ghost hunting group in New England. They also authored many books about their private investigation and lectured in universities on the difference between 'paranormal' and 'ghost'.

Paranormal investigation is still not recognized by society as a proper individual career. However, with the rise of social media platforms, it can become a full-time career. Jay Alani, one of the most prominent Indian paranormal investigators, has his podcasts on numerous media platforms like Gaana, Hubhopper, Spotify, etc. Other than him, many other YouTubers like MrBeast and BuzzFeed Unsolved Network also use paranormal investigations to gain fan following.



Jay Alani at an interview about paranormal activity



Lorraine Warren in an interview while talking about the reality of the movie 'The Conjuring'

SCIENCE CARNIVAL-III lights up SRM Diaspora amidst Covid Blues

ADITHYA R
GAYATRI RAMYA
KOTHURI

Astrophilia is known to be the only club of its kind in South India that invites professors and lecturers from across the country as well as from abroad for seminars that deal with everything related to astronomy, cosmology, particle physics and astrophotography.

The Science Carnival made its debut under the club in 2018. Its third instalment was held from 16th to 18th April this year to promote the values of science and philosophy. The organizers of the event were Divyanshu Mansukhani, Snehangsu Biswas and Vishwadruth Akaraju. The event was divided into two hour-long modules for topics

such as "Astrophotography", "The fate of Particle Physics", "Einstein's Gravity" based on the theme of physics, math and HASS (Humanities and social sciences). The presided guests of the event were Rashmi Sheoran (Indian Science Communication Society), Milan Soneri (Sardar Patel University), Srushti Desai (BITS Institute of Physiotherapy) and Divyansh Mansukhani (University of Glasgow).

The exchange of valuable knowledge was a testimony to the event's success. "Wise is the one who flavours the future with some salt from the past" as quoted by CT Jones, SRM's Astrophilia will look forward to planning the fourth edition with the hope of exhibiting a much better presentation in comparison to the previous editions.

... valuable knowledge was a testimony to the event's success. "Wise is the one who flavours the future with some salt from the past" as quoted by CT Jones

Roles and Responsibilities of Student-Run Organizations in Any Institute

PRIYANK KAPOOR

Under the shining sun, wandering around the campus searching for a classroom, mind weaving through different thoughts, is a typical first-day scenario for a fresher. They only want to fit in. In this process, they make friends, connections, and relationships, hoping to build an entire network at college. But should they limit themselves to knowing students within their class? Of course not, and that is where student clubs come into the picture. These clubs are for the students, by the students, and from the students. While a faculty can act as an advisor, discussions, decisions, and steps taken by the organization are a collective result of the actions by students. Students comprise the core committee

and also consider the interests of all of its members. These clubs are important as they help uplift institutions by offering extra-curricular activities and leadership and time-management skills to students. They also let students pursue their passions that they had to neglect due to the demands of their career. These organizations also act as helping hands for the freshers or those with unclear or blurry goals by connecting them with the Alumni or by conducting events, workshops and inviting experts from the industries to direct proper guidance to the students. These events can help them by providing exposure, experience or even enhance their technical skills by a notch. It is necessary to have such student-run organizations in a college for the complete growth of students.



A musical night organized by a student-run organization