



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

# SPECTRUM

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# National pharmacovigilance week celebration

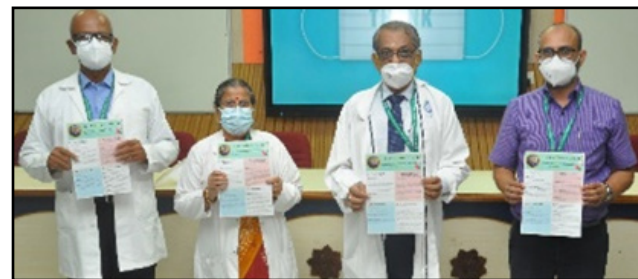
## STAFF WRITER

The National pharmacovigilance week celebration started on 17-23, sept. 2021. The first day started with academic society meet where all the clinicians, physicians, post graduate students and CRRIs that emphasized the importance of reporting the ADR. Apart from this the paramedical faculties and students from dental, nursing, BPT and allied health sciences courses provided training on ADR reporting through various sessions. The medical students participated in rangoli, essay writing, collage, poster presentation in Pharmacovigilance - patients safety competitions, this created an encouraging thought provoking platform for the students to understand the importance of Pharmacovigilance. CME on patient safety was also organised where various speakers from India and an International speaker from Egypt covered salient topics. This CME gave

*"The importance of Pharmacovigilance is not complete until the awareness reaches the community level hence an outreach program was conducted for the public..."*

an opportunity to spread the importance of Pharmacovigilance far and wide. The last day of the program focused on general public. The importance of Pharmacovigilance is not complete until the awareness reaches the community level hence an outreach program was conducted for the public and

all our faculties participated to interact and counsel the public on safe medication practices. Tamil pamphlets with information on safe medication practices was distributed. A sensitization program to address Indian Medical Association Members Chennai branch was also organised.



Academic Society Meet



Students Activities

## NSS - SRMIST innuagural event at Vadapalani campus

### STAFF WRITER

The NSS Unit of SRMIST, College of Science and Humanities, Vadapalani campus was inaugurated by R. Anandhapriya, Admission Director, SRMIST, Vadapalani on 02 oct. 21. As a part of the programme, the NSS wing organized a 'Cleanliness Drive' at Baby Higher Sec. School, Tambaram, where, the NSS volunteers initiated cleaning work across Shanmugam road

Tambaram. The Mahatma Gandhi statue, at Tambaram, was garlanded and the volunteers took oath for making the environment 'clean and healthy'. Dr. T. Rajasekaran, NSS Program Coordinator SRMIST, Kattankullathur and Advocate Aathi Kumarguru were the guests of the day. Dr. K. R. Anantha Padmanabhan Dean (S&H), SRMIST, Vadapalani campus, welcomed the gathering and Dr. M. Babu, NSS co-ordinator, delivered the vote of thanks.

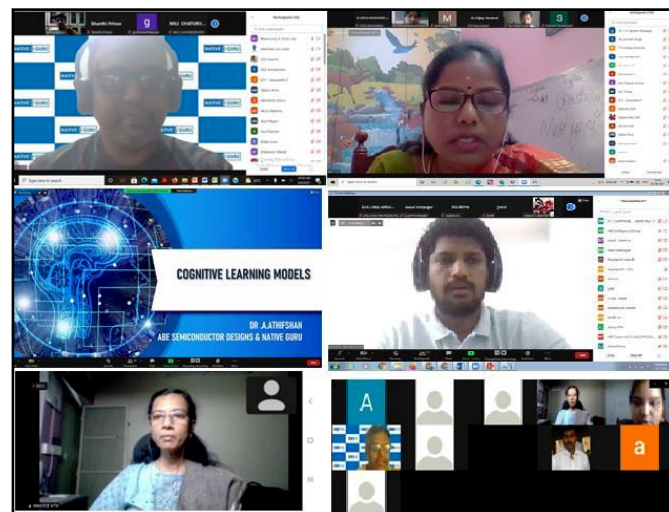


## Short term training programme on "Cognitive learning framework for IoT devices"

### STAFF WRITER

A short term training programme for cognitive learning framework for IoT devices was organised by SRMIST online the August. The programme was inaugurated with the welcome address of S. Malarvizhi. The Chief Guest, Dr. D. Kalpana Principal Scientist Central of Electrochemical Research Institute CSIR Madras gave a speech on IoT. This was followed by the Guest of Honour Dr. Bhui Thanh Hung Director of Data analytics and Artificial intelligence Laboratory, Thu Dau Mot University Vietnam. He gave an excellent coverage on "Malware detection in IoT devices based on deep learning approach". The speakers of the STTP are Dr. Athif Shah and Vignesh Prabhu of ABE semiconductor design. The topics discussed during the STTP are as follows.

1. Introduction to cognitive learning frameworks
2. Practical aspects of selecting cognitive learning frameworks.



3. Introduction to ARM and Embedded processor.
4. Hands on training on ARM and Embedded processor
5. Introduction about adaptive reinforcement learning for Internet of Medical devices (IoMD)
6. Hands on experience on cognitive framework 1
7. Edge and Fog computing devices
8. Hands on experience on cognitive framework 2

9. Micro Python Programming for IoT devices
10. Projects execution on micro python and cognitive framework
11. Hands on training

On the last day a test was conducted and nine students were selected for doing internship in ABE semiconductor design. The valedictory function of the STTP was organized on 8th August 2021 at 3:00 P.M. The guest of honor of the valedictory function was Dr. Athif Shah.





## Honouring one's mother is the highest honour in Tamil: Kundrakudi Ponnambala Adigalar

*SRM Tamil Peraayam awards 2021 presented to noted pulavargal*

### STAFF WRITER

SRM Institute of Science and Technology (SRMIST), Kattankulathur presented awards and honours to the winners of the SRM Tamil Peraayam Awards 2021 (Thamizh Academy Awards) at the celebration held at the Institute's premises. The event was presided over by the Founder Chancellor of SRM Group of Institution and the Member of Parliament (Lok Sabha) Dr. T. R. Paarivendhar, National Award-winning lyricist Vairamuthu and Kundrakudi Ponnambala Adigalar.

Present on the occasion were SRMIST's Pro Chancellor (Administration) Mr. Ravi Pachamoothoo, President Mr. S. Niranjana, Vice Chancellor Dr. C. Muthamizhchelvan, Registrar Dr. S. Ponnusamy, Tamil Peraayam President Mr. Karu Nagarajan among others.

Speaking on how SRMIST has been hosting Tamil Peraayam Awards each year, Dr. T. R. Paarivendhar said, "These awards have always been stepping

stones to bigger awards, the like Sahitya Akademi Award."

Addressing students he said that such awards should motivate them to take up Tamil learning and teach others as well. He insisted that students should be proud of their mother tongue and take efforts to patronize it. In his concluding remark, he said, "These awards will be given each year to encourage many more to promote the language all over the world."

Urging students to give more time for literature Mr. Ravi Pachamoothoo said, "Students always need to be enthusiastic when coming to studying Tamil. Studying gives us knowledge but literature allows us to think."

"Students need to learn from Dr. T. R. Paarivendhar", said lyricist Vairamuthu. Addressing students he said that it is very important for each one of them to leave a mark in this world through literature and education.

He too urged students to become patrons of Tamil and

use technology to take it all around the world. "The only way we can promote Tamil is through the students. It is also important not to have low self-esteem or high self-esteem as both will lead to the destruction of oneself," he advised students.

"Recognizing the right person at the right time is the biggest honour," said Kundrakudi Ponnambala Adigalar. "Always make the best use of time when you're alive. Education should not just give you knowledge but help you learn to love and have humanity."

He cited examples from Tamil history on how poet Bharathiyar and V O Chidambaram uplifted the morals of the language. In his concluding remark, he said, "Honouring one's mother is the highest honour in Tamil."

At the Tamil Peraayam Award ceremony India Post released SRM stamps and handed it over to Dr. T. R. Paarivendhar.

The winners were awarded for their best contribution towards the Tamil language,

literature, & culture for 2021. The awardees and prize money are as follows:

- P u d h u m a i p p i t h a n Padaippilakkiya Virudhu (Short Story, Novel, Drama) of Rs. 1 Lakh was shared between Kengapuram A Venila and Sruthi from Muthunagu.
- Bharathiyar Kavithai Virudhu of Rs. 1 Lakh was Kurunjippookal Kadavoor Manimaran
- Aazha Valliappa Kuzhanthai Ilakkiya Virudhu (Rs. 1 Lakh) was given to Malayar Manipadalgal book Vetrivelan
- G.U. Pope Translation Award (Translation from Tamil) of Rs. 1 Lakh was given to Dr. Palani Arangasami
- Pai. Na. Appuswamy Aaruvial Tamil Virudhu/A.P.J. Abdul Kalam Technology Award (Science / Technology in Tamil) – Rs. 1 Lakh was given to V. Dilli Babu
- Muthuthandavar Thamizhisai Virudhu (Book on Sculpture /

Pictograph (Painting), Tamil Music – Rs. 1 Lakh was presented to TKS Kalaivanan

- Parithimar Kalaingnar Thamizh Aivaringnar Virudhu (Research Book on Tamil) – Rs. 1 Lakh was given to C. Mahendran
- Muthamizh Arignar Kalaingnar Social Justice award – Rs. 1. Lakh was presented to C. Mageshwaran
- Sudesamithiran Thamizh Idhazh Virudhu (Tamil Arts, Literature and Cultural Journal) – Rs. 50,000/- goes to M Poongundran
- Tholkappiyar Thamizh Sangam Virudhu (Rs.50,000) is awarded to Manimegalai Mandram from Rajapalayam
- Arunachalakkavirayar Virudhu (Tamil music / Folklore Troupe) of Rs. 50,000/- was given to Thirupuvanam Athmanathan
- Paarivendhar Painthamizh Virudhu (Lifetime Achievement Award) – Rs. 3 Lakhs was presented to Dr. P. Valanarasu.





## e-IMF 2021 report

### STAFF WRITER

A one-day Intra Mathematics Festival (e-IMF 2021) was organized by Sri Ramanujan Mathematics Club in the Department of Mathematics, SRM Institute of Science and Technology for the second consecutive year. The student's fest was held on 8th Oct. 2021, Friday virtually. The gathering was welcomed by Dr. B. Vennila, Head of the Department of Mathematics and President of Sri Ramanujan Mathematics club who briefed about the club. The Vice-President of the club Dr. N. Parvathi introduced the chief guest of the function Dr. Muneib Minhazuddin, Alumnus of SRMIST and Vice President - Edge Computing, VMware Inc, Avaya, USA. He shared various anecdotes from his life and also gave a very interesting insight into the application spectrum of mathematics. The hot Aditi Rastogi requested Dr. R. Rajagopal, Director (DDE) to declare the meet open and share a few words with the gathering. The three events

scheduled for the day began at 10:30 am. Math quiz was the first event followed by Cross Word and then Sprint Math. All the three events enthralled the students and witnessed active participation. The e-IMF brought together over 1700 student participation (Math Quiz - 680, Cross Word - 543, Sprint Math - 467).

The valedictory function was addressed by the Head of the Department Dr. B. Vennila. later Dr. J. Sasikumar, Professor, Department of Mathematics introduced Mr. Srihari Santhanam, director of Application development. Mr. Srihari Santhanam with over 23 year of experience and expertise in Auto, Home, Commercial & Workers compensation Insurance industry was the chief guest of the day. He addressed the gathering and announced the prize winners. It was followed by vote of thanks by Aditi Dhapre, PRO of Sri Ramanujan Mathematics club and concluded by the National Anthem.

## Workshop on Artificial Intelligence in point of care technologies

### STAFF WRITER

The department of Electronics and Communication Engineering, since its inception has been organizing various technical events every year to impart knowledge to the students and teaching fraternity about the emerging technologies and recent trends. This year, the department has organized a workshop on "Artificial Intelligence in point of care technologies" during 11th & 12th of August 2021 with the intention of providing an insight into the recent trends, research avenues and other aspects relevant to Artificial Intelligence in point of care technologies.

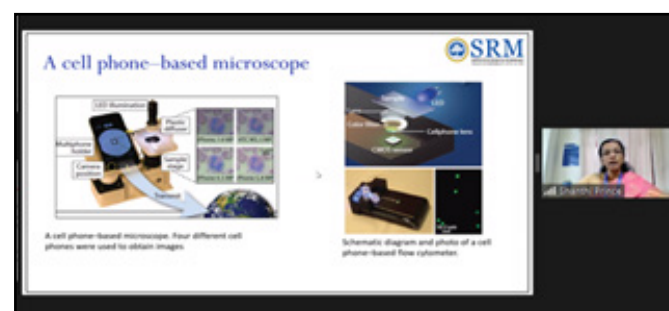
The main focus of the workshop was to emphasize the transformation of health care by incorporating Artificial intelligence techniques. The workshop had a total of 63 participants from various organizations. Speakers from different industries enlightened the audience on the recent happenings in health care.

The first session was headed by Neel Mehta, Deputy Manager, Adani Enterprise Ltd. In this session importance of artificial intelligence in health care were enlightened and the career prospectus of AI/ML/Deep learning techniques were explored. The second session was headed by Mac Mohan Puthran, Senior Data Science Architect, Midtree. Various procedures to be followed in data science and concepts including various preprocessing techniques, data modelling (ML/DL) and data visualization were explored.

*The roles of AI in medical systems to help the doctors in diagnosing a disease were discussed*

First session on day 2 was headed by Dr. Adithya Pothan Raj V, Manager-Infrastructure architect, CTS. The importance of industry 4.0 in health care were enlightened during the session, the roles of AI in medical systems to help the doctors in diagnosing a disease were discussed as well. Insight on the concepts behind reading a data set in the cloud, techniques

involved to test and validate a given data set were introduced. Second session in day 2 post lunch was headed by Dr. Shanthi Prince, Professor and Head, Dept. of ECE which explored the importance of POC testing and diagnosis. Advantages of POC testing, diagnosis and the recent research avenues on the role of optics in healthcare were also discussed.



## SRM bags first prize

### STAFF WRITER

The Indian Society for Quality (ISQ) <https://www.isqnet.org/> celebrated the 121st Birthday of Dr. William Edwards Deming by organizing an Intercollegiate Quiz Competition on Total Quality Management (TQM). In total 72 teams registered and 31 teams were shortlisted for the online prelims held on 08 Oct. 2021. Along with SRM IST, Rajalakshmi Engineering

College, St. Joseph's. College of Engineering and Jerusalem College of Engineering were qualified for the finals held on 12 Oct. 2021.

SRMIST won first place maintaining clear lead in all the six rounds. Team Name: Juran Juran. Team Members: All are final year B.Tech Mechanical Engineering Students and Certified Lean Six Sigma Green Belt.



## Five programs at SRMIST gets NBA Accreditation

STAFF WRITER

Five undergraduate programs at the SRM Institute of Science and Technology (SRMIST), Kattankulathur received accreditation by National Board of Accreditation (NBA). The programs in Biotech and Mechanical have been given an accreditation for six years (2021-22 to 2026-27). Civil, EEE and ECE have been given three years accreditation. SRM Institute of Science and Technology has successfully been rated by QS with 5 Stars for online teaching. QS has also been awarded 4 star rating for the institution and five star rating for teaching, employability, innovation and social responsibility. Speaking

on the latest developments, Vice Chancellor of SRMIST, Dr. C. Muthamizhchelvan said, “This is a significant achievement in continuation of providing quality education to students. Our academic excellence, research and innovation, internships and placements have enabled us to get the NBA accreditation.” He has also urged students and faculty to continue to excel in all areas, with more focus on research on energy, water, environment and health care which are very much needed to sustain life. SRMIST expresses its heartfelt gratitude to all stakeholders - students, faculty, staff, parents, alumni, employers and industry partners for these recognitions.



## SRM and Mahindra sign MoU for research collaboration

STAFF WRITER

The Department of Automobile Engineering under the School of Mechanical Engineering at SRM Institute of Science and Technology (SRMIST), Kattankulathur has signed a Memorandum of Understanding (MoU) with Mahindra and Mahindra, Mahindra Research Valley, Mahindra World City, Chennai. The key highlights of this MoU are, FIIP - Faculty Industry Immersion Program for SRMIST Faculty members; usage of SRM – BRIN Centre, Centre of Excellence in Automation Technologies on “Hydraulics & Pneumatics Technologies”, Mechatronics and Wind Tunnel facility for M&M’s Mahindra Research Valley (“MRV”) engineers and experimental

study; MRV experts to deliver guest lectures to SRM Students and SRM Faculties to deliver trainings to MRV engineers, in turn, based on need; M&M to offer internship to SRM Students, at MRV, without any payments; Submission of joint R&D proposals to Government; Industry visit for SRM students at MRV; and any other collaborations as the parties may mutually agree on from time to time. Mahindra and Mahindra was represented by Dr. Shankar M Venugopal Vice President, Sitaraman Ram Mohan Head - Intellectual Property Department, Ashutosh Joshi Head - Knowledge Resource Centre, C. Subash Head - Farm Technology Capability Building, MTA. SRMIST was represented by Vice Chancellor

Dr. C. Muthamizhchelvan, Registrar Dr. S. Ponnusamy, Dean (CET) Dr. T. V. Gopal, Director (Campus Life) Dr. M. Leenus Jesu Martin, Dean (School of Mechanical Engineering) Dr. D. Kingsly Jeba Singh, HoD Automobile Engineering Dr. R. Rajendran, HoD Mechanical Engineering Dr. M. Cheralathan, Associate Professor Automobile Engineering Dr. J. Chandradass, Visiting Professor Automobile Engineering K. N. Balaji, Assistant Professor Automobile Engineering P. Baskara Sethupathi. Dr. Shankar M Venugopal elaborated the broad areas of research done at the valley.

The long term technological development that can be got from the education sector and so on.

## Palm tree plantation: Abdul Kalam’s birthday

STAFF WRITER

NSS and RRC units, of SRM Institute of Science and Technology joined Dr. A.P.J. Abdul Kalam’s “Vidhaiyin Siraguhal” for a mega palm tree plantation on the occasion of birthday of Dr. A.P.J. Abdul Kalam on 15 Oct. 2021. The program started with the participation of faculty, students, delegates from different organizations Alpha city lions club, Maraimalai nagar and public from Vadamelpakkam and Nattarasampattu village. The program was inaugurated with the NSS prayer song followed by a briefing of basic ideals of Dr. Kalam in the current scenario highlighting the importance of great values of Kalam especially moral ideals and scientific ideas,

which not only India centric but also all over the world by volunteers and the presence of Dr. Nepolean, Dean Research, Dr. Mohanakrishnan, Director, Sports, Dr. Sivakumar, Head, College of Law along with Mr. Mahalingam, NSS program officer, Law college and Dr. T. Rajasekaran, NSS program coordinator SRMIST. The program was organized with the support of the Vice Chancellor Dr. C. Muthamizhchelvan, the Registrar Dr. S. Ponnusamy, SRM Institute of Science and Technology. Approximately 100 participants including students and faculties from SRM and public have taken active participation in this program for planting 20,000 palm seeds along the lake area.





## Green entrepreneurship: Raja the Maestro of Bonsai

STAFF WRITER

Our guest lecturer Raja, who is a renowned horticulturist where his love for plants started at a very tender age from raising kitchen garden to rose garden to cacti garden and all the way to bonsai gardening (an art of combining techniques to grow and style a tree, with the goal to miniaturize it) He has also participated in several Bonsai conventions and learned the art from Bonsai Master Pedro Morales in a 3 years certified program conducted by Tropical Bonsai School. Raja is not just an avid horticulturist but also an entrepreneur. He owns his very own software startup company in Chennai.

At present, he is a Bonsai consultant for several organizations and Bonsai groups. Also, he conducts Bonsai workshops and training programs for bonsai enthusiasts all over the country to popularize and promote the art.

### Lecture Information:

Raja began his speech with an informative pictorial presentation. From his presentation we were able to gather what bonsai was, where bonsai first originated (which is Sri Lanka) and how Japanese took the practice of creating miniaturized tree by using techniques to appear like a tree in a small pot container. He mentioned about the various kinds of bonsai and its various shapes as well as sizes. It was also mentioned how the Japanese used bonsai as a token of peace to the Americans in WWII. From there Americans commercialized the art of bonsai hence spreading and

promoting the art all over the world. Various kinds of potting techniques, trimming and tools that are used in the art of bonsai were picturized. At last, he commemorated his speech on how bonsai plants are exhibited in conventions and how the art of bonsai can be commercialized and merchandised for promotion. Hence, concluding it to be a form "Green Entrepreneurship"

### Q&A Session

Q. What was your experience like with Bonsai Master Pedro Morales?

Ans: It was a fun activity that was conducted in Bombay from morning 9AM till evening 4PM. It was eye opening experience for me.

Q. Can over trimming cause gaps between the stems causing halt in leaf growth?

Ans: Yes, it can. Hence proper techniques of trimming are used. This can only be learned through experience and lots of trial and errors.

Q. What is the soil composition ratio for an average bonsai plant?

Ans: It varies from plant to plant but the most important factor to consider is to always to make sure air ventilation and proper drainage is done to prevent roots from rotting.

Q. In terms of maintenance what's the figure we can expect in terms of cost and time?

Ans. Bonsai take months to years to create a perfect masterpiece but in terms of cost it can highly differ which can't be estimated. But what's important despite the cost and time is the joy you get from it.

## 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 [spectrum@srmist.edu.in](mailto:spectrum@srmist.edu.in)
- Coverage of a certain event or receipt of an article does not guarantee publication.

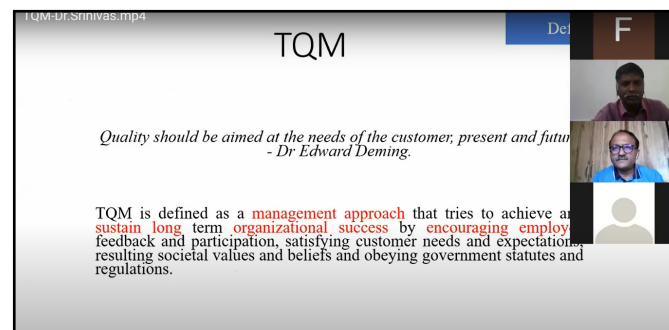
-Editor

## Total quality management practices in industries"

STAFF WRITER

The Department of Business Administration (BBA) SRMIST-Kattankulathur organized a Special Guest Lecture on total quality management on 6 sept. 2021 at 10:30am virtually. The department invited S.Sridhar, factory manager at Hindustan Coco-Cola beverages Pvt. Ltd as our chief guest. The department Dean Dr. Ponniah and Head of the Department Dr. Gajendran addressed the chief guest and honored him with his achievements. The chief guest S.Sridhar introduced about the basics in quality management and the roots on how it evolved. He explained the history of all the companies and said that the entire procurement are responsible for good quality management.

He also enlightened the students on why excellence is required for an organization and about the operation excellence



Principles	Deming Principle	Toyota Principle	
1	Customer focussed organisation	Apply long term Philosophy	System
2	Leadership	Grow leaders who live the philosophy	People
3	Involvement of people	Build the right culture	People
4	Process approach	Create Continuous flow	System
5	Systems approach to management	Use pull instead of push model	System
6	Continuous improvement	Standardize task	System
7	Factual approach to decision making	Use Visual control	System
8	Build supplier relationship	Develop people and team	People
9	Use training on the job	Observe and reflect	People
10	Eliminate fear	Heijunka	People
11	Break down barriers between departments.	Respect all	People
12	Build pride of workmanship / Ownership	Build ownership culture	People
13	Implement education and self-improvement	Maximum focus on Training	People
14	Make "transformation" everyone's job.	Decide slowly and implement team	People

as well. The important key principles of TQM. He said TQM is not a one-time process it is a strategy to be carried out. With his explanation and vibrant knowledge helped

students' show interest towards the subject. With a good and quality doubt clearing session, with a vast acknowledgement of TQM the chief guest concluded his speech.

## Basics of stock market

STAFF WRITER

Department of Business Administration, College of Management, organised by "Basics of Stock Market" was the objective of helping

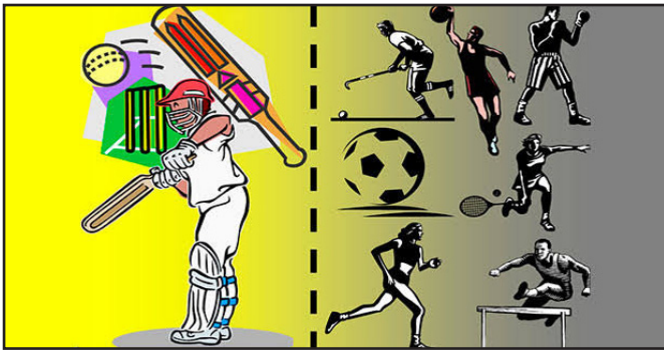
students to know the basics of stock market and understand the rise and fall of prices and their impact on investment. The student should know the importance of savings and the safe way to invest in small

increments allows the money to grow itself.

The event was scheduled on 24th sept. with a rousing welcome by Chereddy Lakshmi Priya (Student convener). Dr. V.M. Ponniah, Dean, College of Management delivered a pleasant and cordial welcome speech, followed by an introduction about the speakers by the host, which gives an enormous information about the guest of the event.

The special guest Bharath Jain, Vice President, Ventura Securities Pvt. Ltd., answered all the questions raised by the students with interest and patience in areas like. IPO investment, how ventura stands as a guide to investors, what as a beginner one has to do, how to smartly invest in top 500 companies, Index fund, derivative ETF, Nifty, Penny stocks. The Thank note was proposed by the event coordinator Dr. K.Karthik Sridar who extended gratefulness by his delightful words towards everyone who supported to host the event including the audience.





Cricket overshadowing other sports in India

## Is Cricket killing other sports in India?

RUDRA PRATAP SINGH

In India, Cricket is not just a sport; it is a lifestyle. Cricketers enjoy a massive amount of attention and followers on their social media accounts with fans taking a keen interest in their personal lives as well. From their hairstyles to their children's latest pictures, every minute detail receives more attention than that of the significant accomplishments in other sports. Once individualism takes over a sport, the individual associated with it becomes a god, and the sport becomes secondary. In addition to this, Cricket in India has been commercialised by the official institutions as well. Their decision to conduct the Indian Premier League amidst a pandemic was not worth the impending risks. In the end, the IPL was delayed due to the inevitable breach in the safety bubble of teams. Although other sports are played extensively in

our country (Kabaddi, Football, Hockey, Boxing, Chess, and many more.), none of them seem to take the national character that is attached to Cricket. Neeraj Chopra's impressive victory in the Olympics enjoyed a brief stint under the spotlight, yet it was no match for the level of appreciation Cricket enjoys. Neeraj Chopra is just one example; several such athletes require a historical victory to receive some amount of attention before being forgotten. Talented and diligent players keep getting eclipsed in a cricket-obsessed India. This frenzy has a devastating effect on other sports. They get limited funds and little media attention, resulting in several players dropping the sport for a more lucrative venture. Cricket cannot be entirely blamed for the current situation; the viewers, official organisations and government bodies must take a firm stand to explore and improve the potential in other sports.

## NASA'S space apps challenge

NANDITA BHYRAVBHATLA

The weekend of October 2nd marked this year's NASA Space Apps challenge- a two-day hackathon for raring young minds to showcase their problem-solving ability. With over 28,000 registrations from over 162 countries; the challenge allowed the participants to utilise NASA's free and open data to address real-world problems and find innovative solutions. The participants tackled 28 challenges over the two-day event and presented 2,814 projects by the end. This year's theme- rightfully so- was 'the power of ten', due to the celebration of the challenge's 10th anniversary. On this momentous occasion, representatives of 10 space agencies were called to join the challenge and judge the project submissions. Prizes, this year, extended to

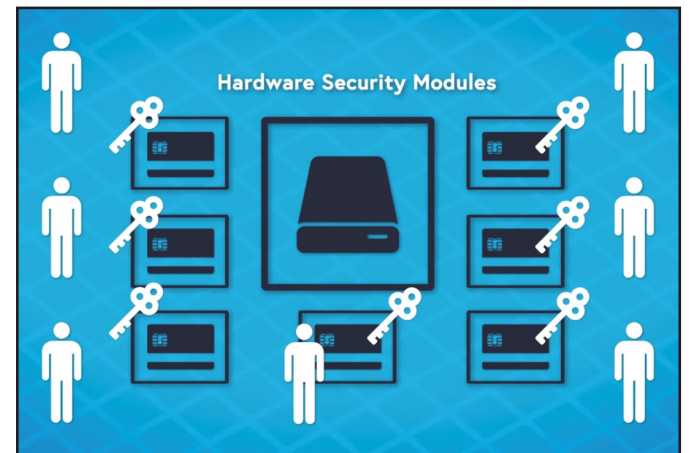
10 global awards for the best project solutions and, though the winners are yet to be announced, it is safe to say the competition was intense. Since its inception in 2011, Space Apps has grown into a far-reaching dais for young scientists to practice their skills in real-time. It allows students to gain confidence under pressure, think quickly on their feet, work as a team through the barriers of diversity and share a stage with like-minded aficionados. As it started gaining traction in 2017, the hackathon reached even the most remote parts of the world with recognition from world-leading space agencies. In a successful attempt to bring innovation, diversity, and knowledge to the next generation of space and technology enthusiasts- NASA's Space Apps Challenge was an event like none other.

## The formidable seven: capable of breaking the global bond

RAMAY RAJ SINGH

Around three hundred thousand years ago, evolution caused a change, a branching in *Homo heidelbergensis*, ushering the creation of a different species, *Homo sapiens*, representing humanity today. But why? What made us unique, grander than the rest? The answer is communication – The ability to promulgate thoughts and ideas made our endeavours thousand times more effective, a prowess that became the impetus to *sapiens* domination.

The world since hasn't changed. We still profoundly rely on our calibre to communicate for the exchange of thoughts, the modern version of which is the internet. The internet, to put it mildly, has reinvented the wheel of communication. But like all wheels, this too has brakes, seven of them. As it may seem, the internet isn't the wild west. Its unerring functioning is possible under set guidelines. Like regular communication, accessing a website takes a lot of background processing to get what you had asked for without compromising



HSMs and the key holders (HAI)

your digital privacy. To verify the authenticity, a system of "keys" is used, which are in pairs and are mathematically associated. A "Public key", as in the name, is available to the populace, but a "Private key" is only known by the proprietor and is used to sign in entities digitally. A connection request is only accredited if the public key's concatenations match the proprietor's signature.

ICANN (Internet Corporation for Assigned Names and Numbers) stores every site's private key and acts as a central anchor for verification. These

keys are locked with a proprietary ICANN key, digits of which are stored on physically inaccessible drives - Hardware Security Modules (HSMs). They can only be accessed by seven unique smart cards, which are kept outbounds. Seven experts from ICANN have the physical keys to these smart card lockers and, if the need arises, can shut down and reboot the Internet effectively by rebooting their key servers. These seven individuals can stifle global communications if they want to. What do you think? Will they? I'll leave you to ruminate.

## The Remarkable Life of Nikola Tesla

TYRA MINNAL VINAY

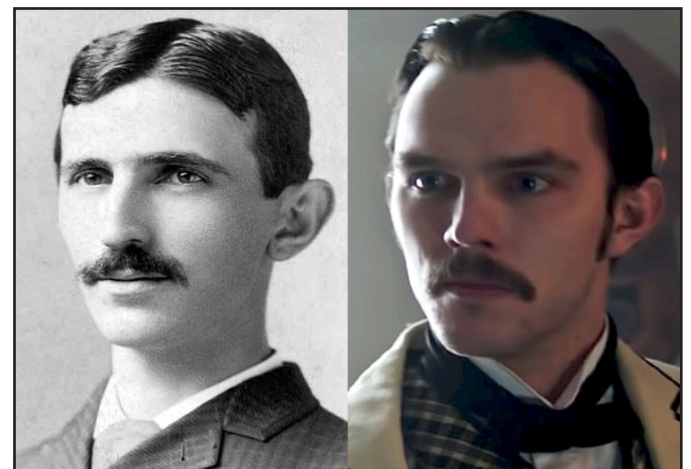
The first thing that comes to mind when one says "Tesla" is the very popular electric car that every other Youtuber living in Los Angeles seems to own. Ironically, what some people tend to forget is the man it is named after, one of the most remarkable scientific minds of the 20th century, Nikola Tesla.

Nikola Tesla at his peak redesigned the way electricity was generated and transmitted. He helped the world shift from direct current to alternating current. Leading up to this massive change, the world witnessed a battle of power or as it is now known, "The Current War" between three men with three separate electric companies: Nikola Tesla, Thomas Edison and George Westinghouse. While Edison was sure direct current was the way to go, Tesla and Westinghouse were aware of the shortcomings of

direct current. Although it was Tesla's invention that allowed Westinghouse to make alternating current commercially viable, Tesla's business skills weren't as remarkable as his scientific knowledge, and he was forced to bow out.

Despite having more than 300 patents that set the course for many modern inventions such as the radio, robotic drones and ac

motors, Tesla died penniless and in a deteriorating mental state. By the end of his tumultuous life, Tesla lived in a small New York hotel room, was in love with a white pigeon and had an obsession with the number '3'. All that being said, even though Tesla lived an unconventional life, he certainly made a place for himself in history books for his ideas and advanced scientific vision.



The actor (Right) who plays Nikola Tesla in the movie "The Current War" side by side the real Nikola Tesla (Left).



# National conference on integrated biotechnological tools and concepts

M KAVIN RAMNATH

The National Conference on Integrated Biotechnological Tools and Concepts (IBTC-2021). It was organized by The Department of Biotechnology, in association with Foundation for Aquaculture Innovations and Technology Transfer, Biogreen Technologies and SLV Bio Solutions. On 23rd and 24th Sept. 2021

The conference was conducted virtually with eminent speakers from India and abroad. With a total of 293 registrations, 30 paper presentations, and 45 poster presentations. The national conference began with the presidential address by Dr. Duraiswamy, Dean CSH followed by the Inaugural address by Rev. Fr. Ignacimuthu, Director Xavier research foundation, on the topic "Biotechnology and its Prospects".

The four technical sessions on day one, covered significant topics such as drug delivery, aquaculture, clinical microbiology and aquatic ecology. Day two,

began with an interesting speech by an eminent scientist from USA on Immunotherapy in breast cancer was followed by special talks on several other prominent topics such as genetics and toxicology, natural products from biotechnology and intellectual property rights. The valedictory address was presented by Dr. Alexander Jesudasan, Pro Vice Chancellor, Hindustan Institute of Science and Technology, Padur. After which, Dr. Paromita Chakraborty, Research Associate Professor, SRMIST, spoke about the problems carried by the pollutants in the environment and brought forth the idea of bioremediation to curb the problem. The vote of thanks was given by Dr. G. Swaminathan, Assistant Professor, DBT, CSH and Dr. T G Nithya Associate Professor, DBT, CSH concluded the event. This was followed by a short prize distribution ceremony for the winners of the poster and paper competition winners by Dr. A. Jesu Arockiaraj, Professor, SRM research Institute which marked the end of the event.



"Working Together Succeeding Together"

## SRM opens In-vitro diagnostic lab in association with HCL

ANAMIKA TRIPATHI

On 11 of Sept. 2021 SRMIST collaborated with HCL for the opening of diagnostic lab of In- Vitro fertilisation in the premises of the SRMIST, KTR. The vision of HCL for In-vitro diagnostic lab is that as, In-Vitro Diagnostic Regulations (EU-IVDR) brings several of significant changes, putting pressure on all the In-Vitro Devices companies to closely examine the regulation, assess the impact it will have on their organization, and implement

compliant processes and procedures accordingly. With limited time until 2022, it is critical to swiftly go around devising new regulatory strategies to move forward efficiently and in time.

On the occasion SRMIST's Registrar Dr. S. Ponnusamy, Dean (Research), Dr. B. Neppolian and Dr. R. C. Satish Kumar, Coordinator of IISM, from HCL Technologies Ltd, Mr. Mohammed Farid, Mr. Praveen Kumar Mavila and Mr. M. Chockalingam were present for the inauguration of the

diagnostic lab. This prestigious moment was held by Vice Chancellor of SRMIST, Dr. C. Muthamizhchelvan and Senior Vice President, HCL Technologies Ltd Mr. R. Balamurugan.

As part of the MoU signed between SRMIST and HCL. HCL IVD Lab was inaugurated at the SRMIST Kattankulathur Campus. SRMIST and HCL has undertaken collaborative device and assay development programs on which they will be working together for R&D, Verification and Validation, Sustenance activities.

## Gender and the early modern witch trials

ANAHITA GUPTA

When one hears the word "witch", the image of an ugly old woman with a pointy nose comes to mind. Not a very long time ago, this wasn't the case; a witch could be any ordinary woman who dared to be different from societal norms.

During the infamous Salem Witch Trials — a series of hearings and prosecution of people accused of witchcraft — an overwhelming number of the accused and hanged were women. The misogynistic nature of these trials is apparent from books like the "Malleus Maleficarum", a treatise on witchcraft published in 1486, which lay the foundation for the widespread consensus in early modern time of the evil nature of women practicing witchcraft. The book repeatedly asserts that women are more likely to participate in witchcraft due to characteristics that only they have, such as weakness of body and mind. Even the women who lived within assigned

gender roles were always in fear of being accused which perhaps, led them to make false accusations before they could be accused themselves. Meanwhile, the men accused were often somehow associated with the accused women, such as their husbands or brothers.

At a time when "Puritanism" was all the craze, the mass hysteria of witchcraft led to

persecuting the powerless. The "powerless", quite evidently, were female, poor and anyone who exhibited characteristics outside of societal expectations. Even though the witch trials did have a political and religious background rather than a strictly gendered one, a myriad of evidence on how they were conducted reflects their misogynistic nature today.



The Salem Witch Trials resulted in the execution of fourteen women and five men among the thirty found guilty and the hundreds accused.



The Brochure of the event



# The big sports story

PRIYANKA SRINIVAS

For SRM University, the last two months have been extremely eventful in the realm of sporting achievements. Students from the university have dabbled in and won multiple sports. Overall, the students and alumni of SRMIST have been the pride and joy for the Department of Physical Education as well as the rest of the university.

The Men's Kabaddi Team participated in the 68th Tamil Nadu Senior Kabaddi Tournament held in Arani, Vellore. Mostly filled with students from first-year BSc. Physical Education, the team was able to bag the first prize under the membership of their coach R. Arivalahan. Meanwhile, the Men's Volleyball Team participated in the State Level Invitation Tournament conducted at Peralam, Thiruvallur from 24th to 26th September 2021. They won the championship and



Men's Kabaddi Team with their championship trophy

were awarded a prize of fifty thousand rupees. Similar feat was achieved by the Women's Basketball Team who won the championship in the 1st District Championship for Clubs and Colleges Basketball Tournament Conducted by Kanchipuram District Basketball Association, Chengalpattu on 18th & 19th September 2021. Finally, in the world of chess, SRMIST produced two young

Women Grandmasters who were honoured by the Tamil Nadu Chief Minister, by presenting Rs. 5 Lakhs each. Additionally, Mr. Adhiban - a Grand Master and an SRM Alumni - received Rs. 30 lakhs for his incredible bronze medal in the World Chess Olympiad 2020 gold in the 2019 FIDE rated World Chess Team Championship held in Kazakhstan.

## SRMIST lends helping hand towards coastal cleanup

LAKSHMI VIBHA

International Coastal Cleanup Day is celebrated on the third Saturday of September. With the increase in the number of non-biodegradable packaging materials and other daily utilities it is essential to keep in mind the measures which people can use to make sure that there is not a huge negative impact on earth. Occasions like the International Coastal Cleanup Day and the actions people take consists of the majority of the solution to any negative effects our consumption might cause.

The SRMIST team contributed towards the International Beach Cleanup Day in association with the National Centre for Coastal Research (NCCR), Ministry of Earth Sciences, Government of India and National Building Research Centre. More than 150 students and faculties joined the clean-up drive at Kovalam Beach. Dr. V. Thirumurugan, Associate Director (Campus Life), SRMIST KTR and Dr. Pravakar Mishra, Scientist F, National Centre for Coastal Research, Inaugurated the program. This event was coordinated by Dr. R. Nagalakshmi, Associate Professor, Department of Civil Engineering, SRMIST KTR. The



Snapshots from the Coastal Cleanup drive

team embarked on a rally which stretched from the Kovalam Beach Temple to the Bus Stand of the same. During this march they spread awareness about the importance of cleanliness among the stakeholders, and also about the prevention of disposable objects which

consists of the majority of the waste cluttering the ocean and the coastline.

They also spoke about the importance of coastal resources, the protection of the coast from pollution, and ways to maintain environmental hygiene.

## Activities at SRM University Delhi - NCR, SONEPAT



Man cannot discover new oceans unless he has the courage to lose sight of the shore – SRM-NCR's World Tourism Day Celebrations'21

## SRM-NCR celebrates World Tourism Day 2021

SHREYA KHERA

The Department of Catering Technology and Hotel Management, SRMIST, Delhi-NCR organised World Tourism Day celebrations on 27 Sept. 2021. The event was headed by. Rishabh Tandon, Area Director HR, IHT and Guest of Honour Vijay Laxmi, runner up Masterchef season-2. Sharing her journey from being an ambitious child to becoming a renowned chef, Vijay Laxmi, inspired the students to work diligently towards their careers. Rishabh Tandon guided the students to inculcate mobility, both geographically and functionally, to succeed in the hotel management industry.

The celebrations commenced with the welcome address by Dr.

Sanjay Viswanathan, Deputy Registrar. He emphasised the role of the private sector in today's tourism industry and encouraged students to travel discovering various cultures. Dean - Campus Life, Dr. Navin Ahlawat addressed the gathering highlighting India's massive growth in the tourism industry over the years and the government's role in its revival from the Covid-19 crisis. Dr N.M. Mishra, Dean - Management Studies, delivered a motivating speech on life and management. Various competitions were held for school students, and the winners were awarded prizes. A vibrant cultural performance on the theme 'Incredible India – Dekho Apna Desh' demonstrated India's diversity, bringing the event to a cheerful wrap.

## Webinar on "Future Scopes in the Hospitality Industry"

STAFF WRITER

SRM-IHM, Sonapat organized an exclusive webinar on 'Future Scopes in the Hospitality Industry' on Oct 11, 2021. The resource persons were Mr. Anurudh Khanna (Multi-Property Executive Chef, Westin (Marriott Group)) & Ms. Megha Sharma (Training Head, Westin Gurugram (Marriott Group)). The students and faculty members of hotel management were part of this webinar. The experts focused on students' queries/doubts. "The webinar helped us to develop decision making and problem solving skills which can help us to cope with challenges in a global business environment.