



SRM
INSTITUTE OF SCIENCE & TECHNOLOGY
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SPECTRUM

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A little school girl offering a piece of cake to the Founder Chancellor on his birthday much to the delight of the onlookers



The President of SRMIST presenting a memento to the Nobel Peace laureate. In the picture are also (from left) the Pro Vice Chancellor (EA), Vice Chancellor, Pro Vice Chancellor (P&D) and Registrar.



Birthday Function of Dr. Paarivendhar MP

The birthday of Dr. Paarivendhar, the founder of the Indhiya Jananayaga Katchi and a member of the Perambalur parliamentary constituency

was celebrated in a private hall at Guduvancheri. The event was attended by IJK party leader Mr. Ravi Pachamoothoo, General Secretary Jayaseelan, president of the Parvakulam

Sangham, Mr. Satyanathan, BJP senior leader, Mr. Pon.Radha Krishnan, screenwriters, film directors association leader RK Selvamani and a large number of IJK volunteers. The welcome note was presented by IJK Kanchipuram District President Mr Muthamiz Selvan and Thanjavur District President Simeon Xavier Raj.



வேந்தர் டாக்டர் டி.ஆர். பாரிவேந்தர் எம்.பி. பிறந்த நாள் விழா

எஸ்.ஆர்.எம் கல்வி குழும வேந்தர் டாக்டர் டி.ஆர். பாரிவேந்தர் எம்.பி. பிறந்த நாள் விழா – பெரம்பலூர் அரசு பள்ளிகளுக்கு 100 கணினி உள்ளிட்ட பல்வேறு நல உதவிகள் வழங்கப்பட்டன.

எஸ்.ஆர்.எம். கல்வி குழும வேந்தர் டாக்டர் டி.ஆர். பாரிவேந்தரின் பிறந்த நாள் விழா சேவை திருநாளாக நடத்தப்பட்டது. இதில் 1 லட்சம் மரக்கன்றுகள் நடும் திட்டத்தினை டாக்டர் பாரிவேந்தர் தொடங்கி வைத்து பெரம்பலூர் நாடாளுமன்ற தொகுதிக்குட்பட்ட அரசு பள்ளிகளுக்கு 100 கணினிகள் பள்ளி மாணவர்களுக்கு கல்வி உபகரணங்கள் உள்ளிட்ட நல உதவிகள் ஆகியவற்றை வழங்கினார்.

நிகழ்ச்சியில் எஸ்.ஆர்.எம் பணியாளர்களுக்கான ஓய்வூதிய திட்டத்தினை வேந்தர் தொடங்கி வைத்தார்.

எஸ்.ஆர்.எம் கல்வி குழுமத்தின் வேந்தரும் பெரம்பலூர் நாடாளுமன்ற தொகுதி எம்பியுமான டாக்டர் பாரிவேந்தரின் பிறந்த நாள் விழா எஸ்.ஆர்.எம் அறிவியல் தொழில்நுட்ப நிறுவனத்தின் தமிழ்ப் பேராயத்தின் சார்பில் சேவை நாளாக நடத்தப்பட்டது. நிறுவனத்தின் வளாகத்தில் உள்ள டி.பி.கணேசன் அரங்கில் நடைபெற்ற இந் நிகழ்ச்சிக்கு நிறுவனத்தின் இணை துணைவேந்தரும் தமிழ்ப் பேராயத்தின் தலைவருமான

முனைவர் ஆர்.பாலசுப்பிரமணியன் தலைமை வகித்தார். இணை துணைவேந்தர் முனைவர் டி.பி.கணேசன், பதிவாளர் என்.சேதுராமன், இ அண்டு டி இயக்குனர் முனைவர் சி.முத்துசெல்வன், நிதி இயக்குனர் எம்.பாலசுப்பிரமணியன் ஆகியோர் முன்னிலை வகித்தனர்.

நிகழ்ச்சியில் திரைப்பட இயக்குனர் கவிஞர் லிங்குசாமி இந்திய ஜனநாயக கட்சியின் பொது செயலாளர் ஜெயசீலன் உள்ளிட்ட பலர் வேந்தர் டாக்டர் பாரிவேந்தரை வாழ்த்தி பேசினர்.

நிகழ்ச்சியை பொட்டி கவிஞர் அறிவுமதி தலைமையில் மக்கள் பணியில் வேந்தர் என்ற தலைப்பில் கவிபரங்கம் நடைபெற்றது. இதில் கல்வி என்ற தலைப்பில் கலைமாமணி ஆண்டாள் பிரியதர்ஷினி, சமூக நலன் தலைப்பில் கவிஞர் இசாக், கொடை தலைப்பில் கவிஞர் அருண் பாரதி ஆகியோர் வேந்தரை பாராட்டி கவி பாடினார்கள்.

தனது பிறந்த நாளை யொட்டி 1 லட்சம் மரக்கன்றுகள் நடும் திட்டத்தினை டாக்டர் பாரிவேந்தர் தொடங்கி வைத்ததுடன் பெரம்பலூர் நாடாளுமன்ற தொகுதியில் உள்ள அரசு பள்ளிகளுக்கு கணினி, பள்ளி மாணவர்களுக்கு கல்வி உபகரணங்களை வழங்கியதுடன் எஸ்.ஆர்.எம் கல்வி நிறுவன ஊழியர்களுக்கான ஓய்வூதியம் வழங்கும் திட்டத்தினை தொடங்கி வைத்தார்.



நிகழ்ச்சியில் ஏற்புறைக்கு நன்றி தெரிவித்து டாக்டர் டி. ஆர்.பாரிவேந்தர் பேசியதாவது: 10 ஆண்டுகளுக்கும் முன்பு வரை நான் பிறந்த நாளை நினைத்து பார்த்ததில்லை. நான் அரசியல் இயக்கம் தொடங்கி அரசியல் வாதியாக மாறிய பின் கட்சியின் தொண்டர்கள் நிர்வாகிகள் என் பிறந்த நாளை கொண்டாடுகின்றனர். என்

பிறந்த நாளை மக்களுக்கு பயன்படும் வகையில் அமைய வேண்டும் என்பதற்காக பள்ளிகளில் வளர்ச்சிக்கான நல உதவி திட்டங்களை வழங்கி உள்ளேன் என்றார். எஸ்.ஆர்.எம். ஊழியர்கள் நலனுக்காக ஓய்வூதிய திட்டம் கொண்டுவரப்பட்டுள்ளது என்றார்.

100 computers gifted by SRM Chancellor to government run schools in Perambalur

STAFF WRITER

SRM Chancellor and MP Dr. T.R. Paarivendhar gifted 100 Computers to government run schools in Perambalur constituency on the occasion of his birthday. He also launched planting of one lakh saplings reflecting his commitment to environmental protection.

The computers were received by headmasters of the schools at the T P Ganesan auditorium.

The event was hosted by SRM Tamil Perayam. It was presided over by Dr. R Balasubramanian, Pro Vice Chancellor. Also present were Dr. TP Ganesan, Pro Vice Chancellor; Dr. N Sethuraman, Registrar; Dr.C.Muthamizhchelvan, Director, Engineering and Technology and M Balasubramaniam, Director of Finance. Special guest for the event was filmmaker N Lingusamy.

M Balasubramaniam, Director Finance, announced the welfare schemes for SRM staff on the occasion. He said, "We have only provident fund as of date for our staffs and now we have come up with a new scheme. Henceforth employees will have four benefits namely, PF, Gratuity, Life cover and National Pension Scheme. Now all the employees who retire from SRM will get these benefits." To start with three families were handed over cheques for their service to the Institution.

As part of the Birthday celebration, one lakh tree sapling plantation was initiated, 100 computers has been donated for Government Schools along with study materials.

On the occasion, free medical camp and organ donation drive, Eye donation and blood donation camps were also held.



SRM Founder-Chancellor Dr. T. R.Paarivendhar gifted computers to headmasters of government run schools in Perambalur constituency on the occasion of his birthday. From left to right, IJK general secretary P.Jayaseelan, Pro Vice Chancellors R.Balasubramanian and Dr. T. P. Ganesan, Registrar Dr.N. Sethuraman and Tamil film director Lingusamy.

To sign or not to sign...A creator's dilemma!



A sample contract with non-negotiable terms

DRUTHI JITHENDRA

“I was headfirst into the deep ocean before I learned how to control my dinghy in the swimming pool”. A very relatable quote to most artists and creators who sign a contract with big agencies at the start of their blossoming career without recognising the risks involved in it. Although offering big promises of grandeur and opportunities, the agencies often take advantage of the naivety of the creator and often, creators are cheated out of their shares for the work they produced. Musicians lose their rights to the songs they sang, wrote or even produced [their masters].

Writers lose the recognition for their articles and books and sometimes artists lose their art itself. This begs the question... should one sign a contract with such agencies?

The answer for the question at this day and age would still be yes. As much as there are drawbacks and issues that exist within the agencies, they still hold a lot of power within their respective industries. For one to succeed, creators need all the help and resources they can get their hands on to help their work get out as one of the most important factors for their success is fame and popularity of the piece they are putting out.

But then, is there no solution to the exploitation? It is a question that pops up in everyone's mind. Even though exploitation might still occur, artists or creators might still be able to lessen it or stop it completely by hiring certified lawyers to draw up a contract that suits both the creator as well as the agency without either of them being scammed or exploited. Also having the contract read by a professional will help remove loopholes put in by the agency or even vice versa. Even then, nothing can be paid off until a little risk is taken but with a little precaution there will be no blow to soften!

Aaruush Educates – Hind Towards Change

SARVESH VISHNU

Hind Towards Change, a student run NGO celebrated six years of their generous contributions to the society this year. They conducted an interactive seminar on climate change and digital literacy recently. The event took place as a part of Aaruush Educates, held along with several other contributing teams.

The first seminar was held in cooperation with children from various local schools in Chennai, with the agenda of briefing them about the drastically changing climate, the importance of sustainable development and several simple ways to save

water. The interactive session, caught the attention of the audience, with unconventional methods in the form of interesting sketches to make it easier for them to understand. The exchange of information is not always unidirectional and this was proved to be right as many children volunteered eagerly to share their opinions on this topic. The successful event entertained the children while also taught them important lessons to live by and work towards.

The second seminar was held post health check-up for the elderly by the doctors of the college. This interactive seminar aimed at teaching the elderly, digital literacy. The

session started with a brief introductory video after which they expressed how they use technology in their daily lives. They were taught about the basic functions of operating a mobile device, online shopping and safety from online fraud and scams. The elders bonded with the speakers over a short period of time and felt really grateful for the hospitality they experienced from the organising team and the volunteers.

The events brought smiles on several faces and taught people essential lessons in life. It is just to say that the interactive seminars held were a grand success.



Altogether 1,348 villages in 50 revenue circles of the 17 districts are underwater

Assam floods Claim Over 86 Lives

MANOJ VAMSEE

The Brahmaputra burst its banks due to heavy downpour in Assam, submerging 3,000 villages in the state. It has already claimed over 86 lives and displaced more than 26 lakh people. The flood has levelled houses, crops, taking away all the land and leaving the displaced people with nothing but grief and starvation.

Assam is one of the flood-prone States in the country. The Brahmaputra floods cause heavy damages to the state every year. This year the disaster management department has put the total number of people hit by a flood in the state at 88.46 lakh in 1,269 panchayats of 13 districts. Altogether 1,348 villages in 50 revenue circles of the 17 districts are underwater.

The MET department has predicted more rains in the upcoming days, worsening the situation in the state and widespread rainfall is likely over Odisha, south Chhattisgarh, Madhya Pradesh, Rajasthan, Gujarat, Maharashtra, and Telangana. In the meantime, families are stranded, having lost their homes, crops, and cattle to the flood; without any food, water, and other essential supplies. At present, 615 relief camps, sheltering over 99,000 people are being operated in 12 districts. According to the Assam State Disaster Management Authority (ASDMA) the overall situation, however, improved, with the water level in all the 17 affected districts showing a receding trend.



A poster depicting the motto of Aaruush Educates



The jubilant England team with the World Cup trophy

ICC CWC'19: of rain and super overs

SAMADRITA SAHA

In the days that followed the conclusion of the ICC Cricket World Cup 2019, Ben Stokes, the man who had single-handedly ended New Zealand's hopes of winning the holy grail of the cricketing world, was nominated for the most prestigious award, in his country of birth. No, not England but New Zealand, the very country he had robbed of its maiden title and that is what perfectly summarises the madness, unpredictability and uncertainty of this edition of cricket's most coveted championship.

The rain played spoilsport from the very outset, forcing numerous matches to end without a result. The fans were not happy and it seemed the weather gods had taken to magnanimity when the skies cleared in the second half of the tournament. Turns out, that was only the calm before the storm as it pelted down on the day of India's clash against New Zealand in the first semi-final. The match went into the reserve day and New Zealand, the perennial underdogs, managed to triumph over heavyweight India.

Cutting to the final, it was the

turn of overthrows and super overs to pick up where the rain had left off. New Zealand were almost at the finishing line when a throw from Martin Guptill deflected off Stokes' bat and ran away to the boundary, ultimately leading England to tie the match, tie the super over that ensued and eventually lift the Cup for the first time in 44 years.

England won the title on the basis of more boundaries scored. It was far from ideal but the British fans definitely were not complaining as the Cup had finally come home.

Power, Circuit And Sustainable Energy Systems (Pcses 2019)

STAFF WRITER

The Department of EEE, SRM Institute of Science & Technology, Kattankulathur organised a National Conference on "Power, Circuit and Sustainable

Energy Systems (PCSES 2019)" recently. The conference was sponsored mainly by IEEE and IET. Mr.P.Ramanavas, Additional chief Engineer, IGCAR, Kalpakkam was the chief guest for the inaugural function

and he outlined the significance of sustainable energy to the gathering and motivated the researchers, faculties to work for the progress of energy sources. This conference provided the platform for the participants to update the knowledge on renewable energy systems, power quality issues, soft computing, optimization and micro grid. Out of 320 research papers submitted, 150 papers were selected and published in this conference. Faculty members, Scientists & Research scholars from various educational institutions and universities presented their research findings. Eminent scientists from prestigious institutions presented plenary and invited talks on a range of topics.



(Right to left) Dr.R.Jegatheesan (Prof/EEE), Mr.P.Ramanavas (Chief guest, IGCAR), Dr.K.Vijayakumar (HOD/EEE), Dr.N.Chellammal (Associate Prof/EEE) releasing the PCSES 2019 conference proceedings

Celebration of Pride

ESHA DUTTA

June is the month of Pride—a month that is celebrated by the LGBTQIA+ community as a symbol of their stronghold over their dignity and self-identity. It is commemorated in different ways in different countries. There may be protests in some places and parades in others—the two are not always mutually exclusive.

Pride started with a riot on 28th June, 1969 at the Stonewall Inn in New York—a predominantly 'gay' bar—which was raided by the New York Police following the arrests of many LGBTQ people.

The community has come a long way since then. Fifty years later, pride now symbolises charities, events, parties, and celebrations that are supported by many allies as the community continues to strive for equality and dignity in a society that was constructed for and by cis-heteronormative people.

It is said that within literature lies the power to begin all over again. Creativity lies at the heart of protest. Poetry and prose give humans their reflections to ponder upon. They facilitate a representation that is nearly impossible in the cultures we are raised in.

A landmark in LGBT literature was Walt Whitman's famous collection of poetry published as early as the 1880s—Leaves of Grass. It celebrates life, humanity, and the love between

...Fifty years later, pride now symbolises charities, events, parties, and celebrations that are supported by many allies as the community continues to strive for equality and dignity in a society ...

men which ultimately led to Whitman's humiliation by the Church. Shakuntala Devi, a mathematical prodigy and 'human calculator' who eventually found her name on the Guinness Book of World Records also published her progressive views in her non-fiction book, The World of Homosexuals.

Post-modern novels like The Colour Purple by Alice Walker and A Little Life by Hanya Yanagihara depict only a sliver of the popularity that books containing LGBT characters have gained in recent years. After all, when society fails, literature and art give people the comfort and confidence to self-determine and accept themselves for who they are.



The LGBT Pride Flag

The Crisis of a Dying Resource

SWATHI BALAJI

On June 19, 2019, the Chennai city officials declared 'Day 0' or the day when the four primary government water reservoirs ran bone dry. The water crisis brought about a chaotic panic in an otherwise systematic city.

According to the Bureau of Indian Standards, a minimum water supply of 200 liters per capita per day is used for domestic consumption in cities and minimum water of 28 gallons per day per capita is consumed by an average employee. Commercial units shut down, private water tanks increasingly dotted the map of the city. People lined up in street corners and inside complexes, relying on a fragile token system for their daily supply of murky water. Fights and pandemonium broke loose.

So, what is the solution? Water shortage is a very alarming and real threat that has gained the attention of several global influencers and activists, making it the talk of the town. Global awareness will bring about innovative forms of sustainable development. The most obvious and necessary thing to do is to reduce the consumption of water, for daily and commercial use. Fixing leaks, preventing overuse, promoting dry washing and ostracising water stressing products have become parroted instructions that need to be followed to the T. Finally, water reservoirs need to make a proper comeback. Borewells digging up to 200 meters have failed to find the water at the minimum groundwater level and hence, we need to adapt and collect water like lifelines and not reward points.

Citizens of the metropolitans have begun to implement necessary water conservation practices and have made big strides towards making water an essential and not a luxury. The rest need to follow heed to make the world a bluer place to live in.



The hardwork behind the soft landing: Chandrayaan II during lift off from Satish Dhawan Space Center Sriharikota, Andhra Pradesh. Source: Indian Space Research Organisation.

Chandrayaan II – Continuing the Lunar Legacy

V. AMRUTHA

They say, "Shoot for the Moon. Even if you miss, you'll land amongst the stars." Well, this quote must be re-interpreted in our current scenario, where Indian Space Research Organization has once again proved its meteoric mettle. With the launch of Chandrayaan 2.0 on 23rd of July 2019, India has become one of the five countries to have set out for a lunar expedition in the world – the only other four being the United States of America, Russia, Japan and China. Furthermore, if it does successfully land on the Moon, it would become one

of the four countries to have had a soft-landing. The main objective of Chandrayaan was to study and retrieve scientific data regarding the lunar surface, and Chandrayaan II is the second step of this elaborate procedure.

It all started about a decade ago, when Chandrayaan II's parent mission, Chandrayaan I was launched in October 2008 and culminated operations mostly successfully on August 2009. The launch brought in an unprecedented amount of data regarding the Moon – which was when we first discovered water ice on the Moon. This discovery immediately placed India as a nation, onto the unofficial map of

the global Space Race, scripting history by making more than 3,400 orbits around the Moon and being operational for 312 days till August 29, 2009.

Chandrayaan II's success reinforces the projection of India being an emerging global superpower. Not only has this proved that our indigenous technology is on par with that of international tech-Goliaths, it has also made space exploration as one of the nation's highly prioritised agendas. The Indian space exploration strives to carry the aspirations of Indians, and with Chandrayaan II, the sky doesn't seem to be a worthy limit.



Satellite view of the state of Tamil Nadu, taken before and after Day 0

SRMSAT : Conquering New Milestones!

ARPITA RAVI

What began as an idea to send a nanosatellite into space has witnessed a huge development as that very satellite, estimated to have a design life of one year has still survived for more than 7 years from its launch date and continues to send data to the ground control centre in the campus at Kattankulathur. Yes, the satellite, SRMSAT, has travelled many, many miles as it completed 40,000 orbits since it was launched aboard PSLV C-18 on October 12, 2011 from Sriharikota.

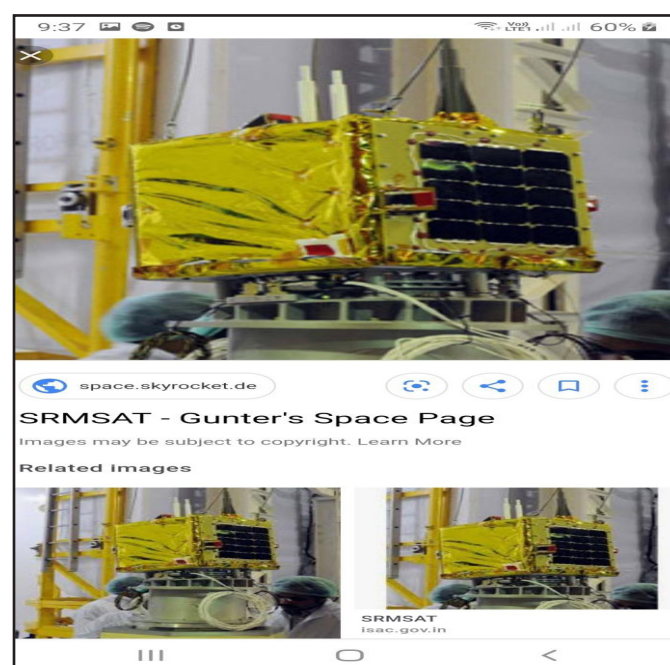
SRMSAT is an earth observation satellite designed, built and operated by around

50 students of SRMIST, drawn from various disciplines of the university. The satellite was constructed to observe and monitor the greenhouse gases in the Earth's atmosphere. The 10.9 kg weighing satellite uses a grating spectrometer to collect data on the concentration of water vapour and carbon dioxide in specific regions of the atmosphere by studying their absorption spectra. It also carries a GPS receiver to help in tracking.

SRMSAT was the first mission of Team SRMSAT, who are now making news for commencing SRMSAT-2, India's first University class microsatellite that is on a mission to the moon. The makers of

the satellite are looking to obtain a stable lunar orbit to acquire lunar surface geology and morphology, characterize the radiation environment, use microwave radiometry to investigate regolith characteristics, and much more. Indian Space Research Organization (ISRO) is currently reviewing SRMSAT-2's preliminary design.

SRMSAT has proved to be resilient, attracting the development of future satellites in the university like the SRMSAT-2, which pushes the limit of small satellites beyond the boundary of Earth. In addition, another project on how to neutralize and/or prevent space debris is also being proposed.



SRMSAT: The resilient space warrior

T-Summit 4.0

SARVESH VISHNU

T-Summit 4.0 is a national level technical summit that was held by Team Aaruush recently. The technological summit was an elaborately planned event composing several lectures and interactive sessions between students and a panel of highly esteemed and proficient guest lecturers.

The panel of professors consisted of Dr. Rajagopala Chidambaram, an integral part of the test preparation of Pokhran-I and Pokhran-II, for over principle scientific advisor to the Government of India, a Padma Shri and a

Padma Vibhushan recipient. The second in the panel being Dr. Vikram Chandra Thakur, a member of Indian Academy of Sciences, a reputed geologist and a Padma Shri recipient. The final lecturer being Dr. Atul Gurtu the former leader of the Indian Team at CERN, Geneva, former senior professor at TIFR and a leading high energy physicist in India. Their agenda was "Pioneering Social Innovation". They give the students the rare opportunity of learning about the major contributions towards the field of science while also interacting with the professors simultaneously.

With such an astounding line



Discussion between students and the panel members

up of lectures planned for the students the summit was bound to be a success. The lectures

were conducted as scheduled with interactive sessions. The event was very helpful for the

students and they gained insight to follow the path of some great achievers.



Dr. K. Vijayakumar HOD/EEE delivering welcome address

Smart Classrooms: Technology - Aids for Effective Teaching and Learning

STAFF WRITER

EEE Department in collaboration with IIT Bombay conducted a one day workshop "Smart Classrooms: Technology-Aids for Effective Teaching and Learning" on April 22nd 2019 for faculties of various department and campuses of SRMIST.

Dr. K. Vijayakumar, HOD/EEE inaugurated the programme and delivered the welcome address. Dr. Bhaskaran Raman, Professor/IIT Bombay speaker of the day handled sessions on Bodhi Tree, a publishing platform which hosts "interactive" multimedia books, an interactivity model based on Socratic method of teaching

which is based on asking and answering questions (which are embedded within videos) and SAFE (Smart, Authenticated, Fast attendance/Exams) is a tool that enables continuous assessment in the form of regular/weekly quizzes in classes, in addition to supporting easy attendance marking. Hands-on lab session using SAFE and Bodhi Tree practice was provided for the faculties through the SAFE app developed by IIT Bombay. Faculties were very much interested to create an interactive platform and also were interested in implementing flipped class room for their course to be handled in the next academic year (2019-20).

Team Rudra- Curtain Raiser "Path to Glory"

NIKHIL GAUR

Team RUDRA-SRM Mars Rover is the official team of SRM Institute of Science and Technology taking part in "University Rover Challenge" since 2013. Since its inception in 2012, the team has consistently taken part in the annual event and brought laurels to the institute as well as the country. The team is working with the sole objective of developing next-generation rovers which will be used in the future search of Martian life.

University Rover Challenge, organized by The Mars Society is an annual event held at the Mars Desert Research Station located at Utah, USA. Every

year, URC issues problem statements which demands the teams to build rovers capable of performing tasks such as extreme retrieval and delivery task, autonomous traversal task, equipment servicing task and the science mission task. Out of around 100 applications received globally only 36 teams are invited to attend the event at MDRS after several steps of review including the submission of a system acceptance video.

It's a matter of great pride that TEAM RUDRA has been invited consistently for the past seven years in URC 2019 held between 30th May to June 1st. TEAM RUDRA scored 265 out of 500 and stood 11th in overall world rankings and 2nd in Asia

among 34 participating teams. The team stupendously clinched 100 out of 100 in science mission and achieved 1st world rank in science task. The coverage of TEAM RUDRA team was also covered by FRANCE 24 news channel.

"The entire team is grateful and thankful to the Director, Engineering, and Technology, Dr. C. Muthamizhchelvan and our mentor Dr. A. Rathinam, as these achievements of the team became reality only by the support of these patrons. I would also like to thank our sponsors Nvidia, Divvela 3D and Sparkfun", Hari Krishna (Team leader) quoted these words with great pride.



SRMIST official Mars Rover Team- "RUDRA" posing with their rover during URC 2019 at Utah, USA



Soaring the skies: Dr. Muthamizhchelvan (Director, Faculty of Engineering, And Technology) felicitating one of the teams, Sangili Thalavaadam from Kumaraguru College of Technology, Coimbatore.

SRM India Hackathon 2019 - Where the Winner Techs It All.

V. AMRUTHA

The Grand Finale, Hardware Edition of the third edition of Smart India Hackathon was held in the SRM FabLab, under the aegis of Union Ministry of Human Resources Development (MHRD), AICTE, Inter Institutional Inclusive Innovations Centre (i4c) and Persistent Systems, recently. His Excellency, the High Commissioner of Namibia, Gabriel P Sinimbo inaugurated the Five-Day Tech Fest which witnessed engineering and technology students from over 3,000 technical institutions across the nation, battling for 100 hours continuously to find solutions to humanity's biggest problems - through technology.

Mr. Anil Sahasrabudhe, Chairman AICTE, adds, "We are growing each year in terms of participation and solutions. We started in the year 2017, with participation of around 50,000 students, in year 2018 around one lakh students participated. This year, the magnitude has grown bigger; around two lakh students have participated this year." The Hackathon was aimed

at bridging the gap between research in universities and, industries.

The first leg of the Hackathon had students tinkering and ideating into the realms of food technology, agriculture, smart cities, renewable energy, clean water and waste management.

On the second day Dr. Abhay Jere, Chief Innovation Officer at Ministry of HRD, Govt. of India, motivated the participants. The third and fourth days witnessed the cultural extravaganza presented by the students, where the faculty also got a chance to unwind and enjoy.

The fifth day culminated with the dignitaries awarding prizes to the four winning teams—Livonian, Bannari Amman Institute of Technology, Sathyamangalam, Whack1, Bharati Vidyapeeth's College of Engineering, New Delhi, Sangili Thalavaadam, Kumaraguru College of Technology, Coimbatore and Trinetra, Madanapalle Institute of Technology & Science, Madanapalle, Andhra Pradesh.



Emerging approaches and divergent perspectives

STAFF WRITER

The Department of Management Studies of SRM Institute of Science and Technology, Vadapalani, organized First National Conference on Emerging Approaches in Business Management-Divergent Perspectives and Dimensions-NCEABM'19. This conference acts as a forum for researchers to present their innovative ideas during the paper presentation session and gather new ideas from other researchers through panel discussion.

The inaugural address was given by Mr. Gopal Mahadevan, WTD and CFO, Ashok Leyland Ltd. He inspired the students with his energetic and enthusiastic presence. He stated that organizations to be successful needs transformation over time

is needed. He spoke about the power of digitization and consumer behavioral pattern for reaching customers efficiently. He also gave four survival/growth pointers which are 1. Having a basic understanding on the recent technology 2. Building up one's Network 3. Keeping in touch with what's happening in the world 4. To ensure that one works hard. In the end he quoted Jillian Michaels, "Transformation is not a future event, it is a present activity".

The conference commenced with the welcome address by Dr. S. Kesavan, HoD, DoMS. Mr. J. Chandrakumar IAS(Retd), Director Admin, SRMIST, stressed on the modern emerging approaches and on how virtual features in business are growing. The special address was given by Dr. V.M. Ponniah, Dean, Faculty

of Management, SRMIST. He emphasized on the great role the emerging youth must take part and the importance of competency. He concluded that everyone has equal opportunities but proper prioritization would set us apart. This was followed by the talk by Dr. K. Duraivelu, Dean (E&T), SRMIST, Vadapalani, who quoted "Engineering and Management should go hand in Hand. There should be a Synergy between them". He also enlightened the students on the latest trends in technology such as the optimum use of Artificial Intelligence systems and IoT. Dr. C. Praseeda, Professor, DoMS, SRMIST presented the report on NCEABM'19. The event successfully ended with the vote of thanks, by Dr. S. Gayathry, Professor, DoMS, SRMIST.

State Level Volleyball Torunament

SRM IST won the State Level Volleyball Tournament organised by Sunder Memorial Volleyball Club recently Kodambakkam. SRM IST beats Panimalar Engg. College and GKM Volleybal Foundation



The Directro of Sports with his winning team.

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

MoU with Apex Laboratories

STAFF WRITER

Apex Laboratories Pvt Ltd, a branded formulations player with 600 crore turnover, who pioneered the introduction of Zinc in the pharmaceutical formulations in India had signed MoU with Interdisciplinary Institute of Indian System of Medicine (IIISM) of Directorate of Research, SRM IST for Collaborative technical and development activities in the following fields with are regarded need of hour like Phyto formulation

Development, Pre Clinical & Clinical trials on various disorders like Type 2 Diabetes mellitus, Hypothyroidism etc. The MoU signing ceremony was presided by Prof.N.Sethuraman, Registrar, SRM IST with Prof.SRS Prabakaran, Joint Director, Research, SRM IST. Ms.Subhashini, Executive Director, Apex Laboratories Pvt Ltd, V.Nagaraj, Executive Vice President, Apex Laboratories Pvt Ltd were also present during the ceremony.



Wheelchair tennis stars Gordon Reid and Alfie Hewett



Novak Djokovic after winning Wimbledon Championship 2019

Tennis: A Game That Never Gets Old!

ARPITA RAVI

The 2019 Wimbledon Championship was a spectacular series of nail-biting sets that was held at the All England Lawn Tennis and Croquet Club in Wimbledon, London, over a span of 14 days. This Championship was, again, a testament to the fact that tennis is an evergreen game.

The tennis that existed in the late 19th century, around the time modern tennis was born, was way different than the tennis now. Tennis has also become more

inclusive, letting wheelchair users into the tournaments. The two major differences from pedestrian tennis is that athletes use specially designed wheelchairs, and the ball may bounce up to two times, where the second bounce may also occur outside the court.

This year, the defending Ladies' singles champion Angelique Kerber lost the title to Simona Halep, whereas the defending Gentlemen's singles champion Novak Djokovic retained his title, fighting tooth and nail with Roger Federer for four hours

and 57 minutes, making it the longest singles final in Wimbledon history. Currently 37 years old, Roger is the oldest player on tour but is still ranked world #3, evidence to his greatness. Djokovic, current world #1, is 32 years old and at the peak of his career, with many wins in his pocket. Martina Hingis, the youngest player who won at Wimbledon (1996), however, was just fifteen years old, signifying that age is not a factor when it comes sports. After all, you live only once, but you get to serve twice!



No goal is too far and no challenge too hard if we believe in the superhero within us and chase our dreams

The Dhing Express

STAFF WRITER

Hima Das nicknamed the Dhing Express, is a sprinter from the state of Assam. Dhing is a town in Nagaon district in the state of Assam; that is the reason she is called "Dhing Express". She was born on 9th January 2000 to a simple family in Assam. Her parents are farmers by profession. She is the youngest of five children. She attended the Dhing Public high School and was initially interested in playing football. Later, upon advice from a school physical education teacher, Shamsul Hoque, she changed to sprinting.

She is the first Indian to win gold medals at international track events. Being just 19 years old she has already got 5 gold medals this July for India within a span of 20 days this year. "No goal is too far and no challenge too hard if we believe in the superhero within us and chase our dreams" read one of her post on Instagram. July month has been indeed lucky for Hima. In

the same month last year, she bagged the gold medal in the 400 m event at the World U-20 Championships 2018 held at Tampere, Finland. Hima Das with her incredible achievement received praise from not only the Prime Minister and the President but also from top Bollywood and sports personalities. Hima Das replied to every tweet thanking them for the good wishes with a promise to work even harder. In September 2018 Hima das had signed a deal with Sports giant Adidas to become its brand ambassador.

Other than her medals in track, she was conferred with Arjuna Award in 2018. She was appointed as India's first-ever youth ambassador of UNICEF-India in 2018 and has been appointed as the sports brand ambassador of Assam. She is the newsprint sensation of India and adding values to the rich sporting culture of P.T. Usha. It is expected that she will represent India in the track and field events at the Tokyo Olympic in 2020.

SRM wins, yet again!

STAFF WRITER

Thiru N.Muthiah Ambalam memorial state level Inter collegiate volleyball Men Torunament was organized recently by the American College Madurai. In Quarter finals SRMIST beats Gandhigaram university, Dindigul by score

25-7, 25-18, In League results, SRMIST beat American College, Madurai by score 25-19, 25-12, 23-25, 25-15. SRM IST lost to DG Vaishnava College, Chennai by score 25-17, 20-25, 29-27, 20-25, 15-17.

In Final league, SRM IST beat STC, Pollachi by score

25-20, 22-25, 25-20.

In final standing, SRMIST, Chennai was winner, DG Vaishnava college, Chennai was Runner, STC, Pollachi got third place. American College, Madurai secured Fourth Place. Srikanth of SRMIST was adjudged the Best Player.





Dr. Satyarthi enjoying a selfie with the Vice - Chancellor and President

Centre of Child Rights at SRMIST

STAFF WRITER

In a first in any Indian academic institution, a Centre of Child Rights would be established at the SRM Institute of Science and Technology in partnership with the Dr. Kailash Satyarthi Foundation.

Nobel Laureate and child rights activist Dr. Kailash Satyarthi on his maiden visit to SRM Institute of Science and Technology Campus near Chennai invited the students and faculty of the Institute to join the Foundation's 100 million campaign to eradicate child labour and slavery and also said that he was prepared to set up an office in the campus. This would be the Foundation's third office after London and Delhi.

In response, SRM Institute of Science and Technology President Dr. P. Satyanarayanan said SRM Institute of Science and Technology would open a Centre of Child Rights in association with the Dr. Satyarthi Foundation. This will act as a nodal unit which would make SRM Institute of Science and Technology the first educational entity in the country to start a

Child Rights Centre in association with the Dr. Kailash Satyarthi Foundation, he said. He presented a miniature model of the SRM nano satellite to Dr. Satyarthi and a plant in an earthen pot. Earlier, the Nobel Laureate planted a sapling in the SRM Institute of Science and Technology grounds.

In his keynote address on "Youth and Compassion," to more than 4,000 students at the Dr. T.P. Ganesh Auditorium, Dr. Satyarthi said he wanted the SRM Institute of Science and Technology to be the first Indian university to lead the global 100 million campaign for social transformation. "You my young friends can be the driver of Change. Change is not outside; it is inside you. You are the Change," he said inviting the students to play a larger global role of being the spokesperson and voice of child labour. "You can challenge companies using child labour in their supply chain. You can be a good volunteer, write small blogs and use social media skills for betterment of humanity," he said.

"SRM Institute of Science and Technology students should be

....his mission of 100 million changes by which he means that 100 million students can change the lives of 100 million children who are not in schools and are deprived of childhood and freedom. -Satyarthi

known in the country as change makers and transformers. You are the real Heroes, not cinema actors who get paid for acting good and touching their mother's feet," remarked Dr. Satyarthi. It was dressed immaculately in Kurta and trousers. He was accompanied by wife Mrs. Sumedha Kailash.

The electrical engineer turned social reformer said that despite India's successful launch of Chandrayaan 2, sometime in the next one hour, eight children will go missing and six children would get raped."

In the land of Saraswati, Durga and Lakshmi, girls are not safe and our boys too are not safe," he said calling on students to pledge to end child slavery in their lifetime. Narrating the story of a humming bird which was determined to douse a forest fire carrying tiny drops of water in its beak, Satyarthi observed, "there is a bird inside each one of you to do your bit for society and country." Later, Satyarthi took selfies with faculty and interacted with a group of school children. SRM Institute of Science and Technology President

Dr. P. Satyanarayanan described Satyarthi as "India's Abraham Lincoln" while alluding to the late US President's efforts to abolish black slavery. "Satyarthi has asked you and SRM Institute of Science and Technology to be part of his mission of 100 million changes by which he means that 100 million students can change the lives of 100 million children who are not in schools and are deprived of childhood and freedom," he said. Child labour happens because of poverty and poverty has to be alleviated through education, he said adding, SRM Institute of Science and Technology would work very closely with the Dr. Kailash Satyarthi Foundation to abolish child labour. Vice Chancellor Dr. Sandeep Sancheti welcomed the gathering after which students made a presentation of their social welfare projects. Pro Vice Chancellors Dr. T.P. Ganesan and Dr. R. Balasubramanian were present on the occasion. Prof. N. Sethuraman in his vote of thanks said SRM Institute of Science and Technology students would contribute their mite towards establishing the Child Rights Centre.

SRMIST students develop inkless printing tech prototype

STAFF WRITER

In what is expected to be a huge game changer in the printing industry and related environmental pollution, Aura Labs team of SRM Institute of Science and Technology has developed a prototype of an inkless printing technology machine.

The brains behind the invention are Shilpa Thakur (M.Tech, Robotics, Dept. of Mechanical Engineering, SRM KTR) and Shylesh Srinivasan (B.Tech, Dept. of Electrical and Electronics Engineering, SRM).

They plan to float a startup in a few months' time once the prototype is perfected for commercial applications. They have come up with a Plasma Carburization Inkless Printing Technology that can print on paper without using any kind of toxic, consumable and expensive inks or toners. Their Aura Labs team topped the ten teams at the India Innovation Challenge Design Contest held in Bangalore.

The technology is perceived to be very effective in reducing the generation of Plastic and E-waste contributed by huge scale of discarded Printer Ink and Toner Cartridges which also would eliminate the discharge of toxic chemicals contained

within them. "We used plasma energy to carbonize the paper surface instead of chemical inks and toners which pose health hazards when discarded," said Srinivasan.

Aura Labs of SRMIST was awarded the Chairman's Award, the First Prize at IICDC conducted by Texas Instruments India, DST India, IIMBangalore and My Gov India for the Best Innovation and Technological Impact.

The Award was presented by the Chairman of AICTE, Prof. Anil Dattatraya Sahasrabudhe to Shilpa Thakur (M.Tech, Robotics, Dept. of Mechanical Engineering, SRM KTR) and Shylesh Srinivasan (B.Tech, Dept. of Electrical and Electronics Engineering, SRM KTR) who had developed the Inkless Printing Technology. They were selected from 26,000 Startup applications from all over the country.

A total of 1,750 colleges participated in the event and 26,000 students took part. Ten thousand projects were submitted out of which 30 were shortlisted. SRMIST Aura Labs team emerged the winner bagging the Chairman's Award.



Tackling industrial hazardous waste

STAFF WRITER

Industry-Academia-Society partnership must for hazardous waste management SRM Institute of Science and Technology, Kattankulathur Campus, August 10, 2019 Industry, Academia and Society have to work in tandem in an increasingly interdisciplinary environment to make a breakthrough in solid waste management as well as in tackling air and water pollution, speakers said at a panel discussion on challenges and opportunities in environmental waste management for sustainable growth of industries. The panel headed by S. Mani, President, Orchid Pharma Ltd and former Chairman of Industrial Waste Management Association, concluded that there was tremendous scope for re-engineering and reverse engineering to destress the environment. "Industry and Academia cannot work in silos and somewhere bridges have to be built to come up with solutions," Mani summed up on the concluding day of a three-day international conference on sustainable technology to tackle industrial hazardous waste,

organized by the SRM School of Bio-Engineering. He also presided over the valedictory session. Dr. Pattanathu Rahman, Professor from Portsmouth University, UK, and alumnus from SRM Institute of Science and Technology, called for efforts to minimize food and water waste. Other panelists included Dr. S Subramanian, Deputy General Manager, TNPL, Dr. G. Sekaran, eminent industrial scientist, Dr. R. Chandra Mohan of Chennai Petroleum Corporation Limited, Dr. S. Venkata Mohan, Bhatnagar Awardee scientist, Dr. N Ramadoss, former secretary IWMA and Mr. Kaja Mohideen, entrepreneur. The conference was inaugurated by Dr Alok Dhawan, Director, CSIR-Indian Institute of Toxicology Research, Lucknow. The conference hosted by SRM School of Bio-Engineering was supported by Science and Engineering Research Board of the Union Department of Science and Technology and Department of Bio-Technology. Addressing the delegates at the T P Ganesan Auditorium, Dhawan urged students to resolve local problems pertaining to air and water pollution using high

end science. He complimented the SRM Institute of Science and Technology for its world class facilities for research and development.

"We have done our bit to destroy the environment and are transferring the baton (responsibility) to the younger generation to handle. We need to understand how important it is to treat Mother Earth as she does not need us but we need her," he said alluding to various Bioremediation methods to solve local contamination around Lucknow. Welcoming the delegates, Dr. Sandeep Sancheti, Vice Chancellor of SRM Institute of Science and Technology, lamented that there was hardly any waste disposal policy in India pertaining to automobiles or old houses which were hazardous to life and limb. "We need to follow the nuclear industry domain to be more conscious of waste disposal," he said. Dr. Paolo Monica Talia from Argentina, Dr. Ramon A. Batista, Mexico, Dr. Elisabet Aranda, Spain and Dr. B. Ravindran, South Korea, were among the speakers.



IICDC Chairman's Award presented by the Chairman of AICTE, Prof. Anil Dattatraya Sahasrabudhe to Shilpa Thakur (M.Tech, Robotics, Dept. of Mechanical Engineering, SRM KTR) and Shylesh Srinivasan (B.Tech, Dept. Of Electrical and Electronics Engineering, SRM KTR) who had developed the Inkless Printing Technology.



Participants at the School Fair 2019

Techno Science School Fair 2019

STAFF WRITER

Techno-Science Fair, a two-day national wide school competition, organized by Marine Technology Society (MTS), India Section in association with SRM MTS Student Chapter and SRMASCE Student Chapter was held recently at T.P. Ganesan Auditorium, SRM Institute of Science and Technology, Kattankulathur. Schools from various parts of India participated, where a mixture of students from various grades and boards displayed their creative skill in the form of a working model or prototype and posters. The competition provided a widespread option in choosing the stream and track of interest for the students, thereby enabling choice flexibility. Students who chose the prototype track can further choose between one of the following four streams namely – Energy, Environment, Health, Artificial Intelligence (AI) and Robotics and Construction. No stream wise categorisation was present for the students who participated in the poster track, thereby no boundary was drawn for the student's creativity. In addition to prototype and poster tracks, a quiz track was present, where two rounds – prelims and finals were held and student's knowledge on real-time applications, novels and famous places were tested.

A brief about the moments of the competition

Techno-Science Fair was inaugurated recently. Dr. R. Venkatesan, Chairman, MTS India Section & Group Head – Ocean Observation Systems, NIOT welcomed the gathering. Dr. R. Venkatesan, briefed about the objective of the student chapter, the mission of MTS and the benefits of being an MTS member. Dr. D. Devaraj, Dean – Academics, Kalasalingam Academy of Research and Education (KARE) delivered the inaugural address. The chief guest briefed about the advancements in the field of science, benefits of attending a science fair and the importance of engineering in day-to-day life. Dr. C. Muthamizhchelvan, Director (E&T), SRM IST felicitated. Dr. J. Preetha Roselyn, Student Mentor, SRM-MTS Student Chapter briefed about the competition to the audience. The inaugural address was followed by presentation of mementos to the chief guests and the competition's juries. Dr. K. Vijayakumar, HOD/EEE and Dr. Sathyanarayanan, HOD/Civil delivered the felicitation address. The end of the inaugural ceremony marked the beginning of the competition.

Juries from various fields of expertise were called to evaluate the work of the students. Selective juries were chosen to evaluate the posters based on the student's work and their presentation. The organization of the competition and the volunteer's efficiency

can be proved exceptional, as different tracks – prototype, poster and quiz were organised parallelly. A quiz master, who had conducted various quiz competitions at national level, took the responsibility of putting forward the questions to the students and an evaluator took charge of allotting points to each student team. Refreshments and a grand buffet lunch were served on both the days of the competition. The volunteers also ensured that students from far away distances were escorted to the competition location and provided with good hospitality by arranging proper transport facilities and stay at the institute's student hostel.

The competition, on its second day, came to a finish followed by a valedictory function. Chief guest – Mr. K. Nandakumar, Secretary, MTS India Section participated in the valedictory function of the competition and awarded prizes to the students of the winning team. Cash prizes and medals were awarded to the students of winning team and runner-up in each stream of prototype track and also winning team and runner-up of poster and quiz tracks. In addition, the winning team and the runner-up received an excellence certificate. Participation certificates were awarded to all the participating teams and an appreciation certificate was awarded to all the volunteers and faculty mentors of schools. The valedictory

ASCE
INDIA SECTION SOUTHERN REGION

SRM STUDENT CHAPTER
INSTITUTE OF SCIENCE & TECHNOLOGY
— Deemed to be University —

marine technology
SOCIETY

109 Prototypes, offering real-life applications, and 27 posters discussing about everyday issues were presented by the students and 46 teams participated in quiz competitions.

function was marked with its end by a national anthem.

Success points of the competition –

A total of 420 students from 19 schools participated in the event.

109 Prototypes, offering real-life applications, and 27 posters discussing about everyday issues were presented by the students and 46 teams participated in quiz competitions.

14 Juries, whose area of expertise were – Energy/Health/

AI and Robotics/Construction/Environment participated.

Certain prototypes presented by the students were equal to those made at engineering level.

Cash prizes, medals and excellence certificates for students from the top two winning teams were presented by the chief guests during the valedictory function.

Participation certificates were awarded to all the participating teams and appreciation certificates were awarded to all the volunteers.

Another Milestone for SRMIST as it inks MoU with CSIR-CBRI

STAFF WRITER

In a giant step towards creation of a large reservoir of highly qualified manpower in diverse fields related to science and technology, a Memorandum of Understanding (MoU) has been signed by SRMIST with the CSIR-CBRI (Council of Scientific and Industrial Research-Central Building Research Institute).

The objective of the MoU is to set up a mechanism for concerted efforts by the institutes to cater to the rapidly growing scientific and technological knowledge and professional excellence in all fields of science and technology.

The Engineering and Technology wing of the SRMIST inked the MoU with CSIR-CBRI to spearhead its scientific research through collaborative efforts. The MoU was signed in the presence of Director (CSIR-CBRI) and Director (E & T) SRMIST and the faculty of Civil Engineering Department.

The Director CSIR-CBRI Dr.N. Gopalakrishnan, deliberated on the importance of interdisciplinary research and crucial areas of future research. Dr. C. Muthamizhchelvan, Director (E & T) SRMIST elucidated, the perks of inter-institutional research and how it could propel SRMIST's journey towards Global eminence.

The significant points of the MoU include, joint guidance of student projects/theses joint organization of workshops and seminars, Practical training for students at CSIR-CBRI and joint project proposals. The key functional fields of development

would comprise, Civil Engineering, Building Science, Engineering Geology and other branches of Engineering, Technology and Science. Head of the Department, Civil Engineering and his team of experts were present during the proceedings.

About the Institutes....

The Central Building Research Institute, Roorkee, India, one of the dynamic national laboratories of CSIR, has been vested with the responsibility of generating, cultivating and promoting building science and technology in the service of the country.

Since it's inception in 1947, the Institute has been assisting the building construction and building material industries in finding timely, appropriate and economical solutions to the problems of building materials, health monitoring and rehabilitation of structures, disaster mitigation, fire safety and Energy efficient rural and urban housing. The Institute is committed to serve the people through R&D in the development process and maintains linkages at international and national level.

SRMIST is an institute with key moto towards eminence, with a vision to emerge as a world class university in creating and disseminating knowledge, and providing students a unique learning experience in Science, Technology, Medicine, Management and with a mission to move up through international alliances and collaborative initiatives to achieve global excellence.



Founder's Birthday Trophy

STAFF WRITER

Department of Physical Education & Sports Sciences, SRM IST iorganised an All India Invitation Inter Collegiate "Founder's Birthday Trophy 2019" in Basketball (Men & Women), Ball Badminton (Men & Women),

Volleyball (Men & Women), Badminton (Men & Women), Kabaddi (Men), Tennis (Men & Women), Table Tennis (Men & Women), Football (Men), Hockey (Men) at in SRM IST campus, kattankulathur. Nearly 100 teams from all over India participated in the tournament.



Maharishi School students get an education tour of SRM

STAFF WRITER

About 61 students (29 Boys and 32 Girls) and three teachers of Maharishi Vidya Mandir Senior Secondary School, Irungattukottai, Sriperumbudur took part in an open house programme at SRM Institute of Science and Technology, Kattankulathur recently.

The students, who were in their 11th and 12th, were divided into groups and shown around the campus and the various

facilities the university provides in the premises. The day was filled with seminars, lab visits, walkthrough, and workshops. The aim of the event was to educate school students on the complete facility, infrastructure, teaching, and research opportunity available at SRM IST.

The day started with a seminar on SRMJEEE 2019 followed by a visit to the Biotech and Genetic labs. The students then visited the Medical College and Museum, which was followed

by a walkthrough of the Dental College.

They also got a hands on knowledge about the functioning of SIIC (SRM Innovation and Incubation Centre), Nanotechnology Research Centre, Mechanical workshop, Robotics Lab, Aerospace Hanger, Automobile Workshop and concluded with a walkthrough of the Civil Lab. They were then given brochures on SRM IST and its various departments and course.



Mathematical Modeling Competition - 2019

STAFF WRITER

Mathematics is a precise language that helps to formulate ideas and underlying assumptions. Also being a concise language with well – defined rules for manipulation, mathematics is used in the development of models.

Mathematical modeling provides the way for better design and control of a system and makes one efficient in modern computing. It helps the students in experiencing the power of mathematics to analyze and solve real world problems beyond the mathematical training in classroom.

The Department of Mathematics, SRM Institute of Science and Technology, Ramapuram, conducted “An interdisciplinary Mathematical Modeling Competition based on Engineering Applications” on 21.08.19 for students, providing opportunity to compete in a team, to estimate the quantitative behavior of the system thereby identifying a model’s strengths and weaknesses. More than 75 teams registered, out of which selected 35 teams participated with many innovative ideas.

Dr. Neelesh Upadhye and Dr. Ramesh K, Professors, Department of Mathematics, IIT Madras have been the judges. While announcing the prizes, the judges

mentioned that the models displayed in the competition were of high standard and advised the students to continue their efforts.

Director General of the campus in his felicitation address appreciated the interest of the students in participating and congratulated the Department for conducting the project related activity. Dean Research in his speech said Mathematics plays a vital role in emerging technologies and congratulated the Department for conducting the competition every year. Dean (E&T) said that Engineering and Technology involves the applications of Mathematics and Science.

The first prize was won by two teams – Yatheendra Mishra, Anubhav Sahao of CSE Department and Akshay P.M of CSE Department. The second prize was shared by two teams- Chinmayee Tilker, Sairaj Jadhav, Arithrojit Mukherjee, Abhishek Panda of Mechanical Department and Akshay Sabur, Suraj. P. S, Jose Thomas of Mechanical Department. Siddharth P.M of EEE Department. Samuel Britto, Prakash, Adarsh Kumar and Manoj Bhai Acharya of IT Department won the third prize. Dr. Shakeela Satish, Professor and Head, Department of Mathematics welcomed the gathering and Mrs. Leoni Sharmila, Assistant Professor, Department of Mathematics proposed the vote of thanks.



State of art technology @ SRMIST

STAFF WRITER

SRM Institute of Science and Technology is now equipped with Advanced Characterization Facilities, which consists of Laser Flash Thermal conductivity, Seebeck Coefficient Measurement System, Cryogenic Probe Station and Semiconductor Parameter Analyzer.

These state-of-the-art facilities were inaugurated at the Nanotechnology Research Centre, in the Kattankulathur campus recently. A workshop on ‘Advanced Characterization of Material and Devices’ was held as part of the event.

The facility was inaugurated by Dr. M Kamruddin, Associate Director, ANG division, IGCAR Kalpakkam. He was joined by Dr. C Muthamizhchelvan,

Director (Engineering and Technology) SRMIST, Prof. Masaru Shimomura, Prof. Hiroya Ikeda and Prof Yasuhiro Hayakawa from Shizuoka University (SU), Japan,

Speaking on the occasion, Dr. Kamruddin said, “All these facilities are dream instruments. Private universities and organizations should chip in more for Research and Development. It is good that SRMIST is working towards bringing such world class facilities under one roof. These facilities are open to everyone from all over the world where researchers can send in their samples do their work.” Dr Muthamizhchelvan said, “Research is not confined to one department, therefore, these facilities are open to all. Researchers can send their

samples through online booking and gain access to the latest equipment through our website nrc.srmonline.net.” The facilities LFA 467 Hyperflash and ZEM3 are fully sponsored by SRMIST at a cost of Rs 3.5 crores. The other existing facilities at SRMIST include X-Ray Photoelectron Spectroscopy (XPS), High-

Resolution Transmission Electron Microscope (HR-TEM), Field Emission Scanning Electron Microscope (FESEM), Vibrating-Sample Magnetometer (VSM), X-Ray Diffractometer (XRD), Scanning Probe Microscope (SPM) High Resolution Mass Spectrometry (HRMS) and many more along with a supercomputer

typically used for scientific and engineering applications. Dr. M Navaneethan, convener and HOD (Department of Nanotechnology), Dr E Senthil Kumar, Dr Kamala Bharathi, Dr John Thiruvadigal, Dean (Sciences), SRMIST were also present.



Dr M Navaneethan Convener and HOD (Department of nanotechnology) explains the working of the ZEM3 to the Chief guest Dr M Kamruddin, Associate Director, MMG, IGCAR along with Dr C Muthamizhchelvan (Director, E&T) and visiting professors from Shizuoka University Japan- Prof Ikeda, Prof Shimomura and Prof Hayakawa

Journalism students at Media Events

STAFF WRITER

The faculties and students of Journalism and Mass Communication from SRM Institute of Science and Technology attended The South Indian Media Summit which took place on the 9th of August 2019 which brought several speakers from various media disciplines to address the audience on South Indian Media. The inaugural took place with legendary speakers like V. Narayanaswamy and Arnab Goswami, who highlighted the importance of south in media and expressed their views to us. The sessions that took place were panel discussions where experts from the field put forth their view on the topic. The agendas of the summit are things that need the attention of people, for example, fake news, language's role in OTT, women in media and who are consumers of OTT. The ideas put forth by the speakers in the panel enlightened the audience as the views were from experts who were highly knowledgeable about the topics discussed.

The American Center, U.S. Consulate General Chennai, hosted an event on 21st August 2019, "Digital Media in a Democracy: A Conversation with Award-Winning Media Executive Dan Shelley". The conversation informed the audience of the dangers of WhatsApp forwards, which are often the origin and sources of Misinformation and Disinformation. Mr. Daniel Thimmayya, Chief Reporter, The New Indian Express, in conversation with Mr. Shelley talked about how a simple forward can tip the scales of a nation where the public opinion decides the fate of its democracy. The audience consisted mostly of eager and enthusiastic students of Journalism from various colleges from the city, including a group of five students from the Department of Journalism and Mass Communication, SRM Institute of Science and Technology, Kattankulathur.

The workshop on countering disinformation organised by the American Consulate was held on the 22nd of August 2019 where speakers who are

expertise in the field spoke about countering disinformation and handling the widespread of disinformation. Dan Shelly, Dr. Sridhar Krishnaswami, Satish Kumar K, Indhuja and Tamilselvi Shahul were the speakers who spoke about different aspects of disinformation. The workshop gave a broad idea on how to counter disinformation, techniques in debunking photos and videos, identifying breaking news and challenges in academic campuses. The concepts were touched by the speakers in a different aspect that gained the attention of the audience and enlightened the audience with different facts and information on disinformation.

On the 26th of August, 2019, the Young Journalist's Association of the Department of Journalism and Mass Communication, SRM Institute of Science and Technology, Kattankulathur, organized a guest lecture by Mr. Daniel Thimmayya, Chief Reporter, The New Indian Express. This year's association activities were inaugurated with the Investiture ceremony for the Council of Members of the Young Journalist's Association, an initiative exclusive to the department, which plays a leading role in the hosting of events such as these guest lectures, talks, and conferences.

The much awaited lecture by Mr. Thimmayya on "Digital Media in a Democracy" educated the students on the origins and differences of misinformation and disinformation through his talk. In an interactive session various topics such as, Section 66A, WhatsApp forwards, Facebook posts and unnecessary comments on social media were discussed. The lecture was well received by the audience as proven by the vibrant question and answer session that followed. Students were able to gain clarity on the topics discussed and expand their knowledge on different current national as well as international scenarios.

After the lecture, Mr. Thimmayya congratulated the office bearers Young Journalists' Association with the badges, marking a new beginning for the association for the academic year 2019-20.

