

The Newspaper of SRM University

# SPECTRUM

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## PHYSIOTHERAPY - UPDATES & ADVANCEMENTS



The Founder Chancellor welcomed by the Dean, SRM College of Physiotherapy Dr.Shivakumar at the two day conference



The Chief Guest and senior University administrators at the function

## Come up with a goal and achieve it... Vice Chancellor

### STAFF REPORTER

SRM University, Vadapalani campus celebrated its 8th annual day function with much gusto recently. The celebration began with the speeches of Dr.N.Sethuraman, the Registrar, and Dr.Prabir Bachi, Vice Chancellor. The Chief Guest,

Mr.R.Srinivasan, The Editor, The Hindu Business line encouraged the pillars of Young India to enrich their knowledge with passion and make India a great and powerful country.

The Registrar galvanized the students to never give up and keep working towards their

goals. The Vice Chancellor gave a shot in arm that “Passion and Success” are like two sides of a coin and so “You come up with a goal, achieve it and go for another”.

The students who have excelled in academics, sports, clubs were given prizes, to provide

encouragement to them. The cultural events were powered with rocking band show, stunning style walk and incomparable dance performance. Some memories are realities, and are better than anything that can ever happen to one again-Willi Cather. This annual day happened to be one such day for all the students.

### WORLD WATER DAY

## Innovative Techniques in Water Management ITWM 2017

### KAVYA JAYANTHAN

The national workshop on Innovative Techniques in Water Management ITWM 2017 on account of World Water day was conducted by the Department of Civil Engineering at SRM University. In his welcome address, Dr.K.S.Satyanarayanan, Head of the Department of Civil Engineering, insisted on the importance of conservation of water.

The inaugural speech was given by the chief guest Dr. P. Shanmugam, Senior Principal Scientist, Environment Engineering Division, CLRI, Chennai. He engaged the participants with his lively speech, which gave insights about the quality of water and its relation to cultural heritage.

The first speaker of the morning session Dr. Ashutosh Das, Pro-Vice Chancellor in Research Environmental



The Chief Guest and the inaugural

Engineering, PRIST University, Thanjavur, provided resourceful information on low cost water treatment technologies. Professor Brahadeeswaran, Dean, Department of Civil Engineering, Shanmuganathan Engineering College, Pudukkottai, delivered a lecture on ‘Rain water harvesting technologies:

the reality’. He gave a holistic view of the rain water harvesting methods from all over the world and substantiated them with interesting videos.

The post-lunch session was started by Dr. K. P. Sudheer, Professor, Environment and Water Resource Engineering Division, IIT Madras. He spoke

about the present scenario of the sustainable water management and challenges in India. The afternoon session concluded with a speech by Dr. B. V. Mudgal, Professor, Centre for Water Resource Engineering, Anna University. He addressed the integrated water management strategies, the present and future scenario in India.

The valedictory session featured an industry expert, Mr. Moses John, CEO of Hubert Enviro, Chennai. He regaled the audience with his experiences in CPCL in the 80s when they had water shortage and had to look for alternative technologies. The workshop had participants from academia and industry. Participants from Andhra Pradesh and Kerala attended indicating the interest in conservation of water. Sustainable development and conservation of water is the need of the hour and for the future.

## Advancements in Mobility of Automobiles

### KAVYA JAYANTHAN

The Department of Mechanical Engineering under the aegis of SAE (Society of India Automotive Engineers) India collegiate club, arranged a seminar on “Advancements in Mobility of Automobiles” recently. All the SAE students and the faculty members attended the seminar. The resource person for the seminar was, Mr.K.N.Balaji, Senior Automotive advisor, Renault Nissan Technology Business centre India, Chennai. He briefed about the various markets for cars, trucks and leading automotive manufactures, and also added few points on the future of automobile industries.

He talked about the current innovations in these industries and the overview of global market. The differences in the global market and the Indian market were clearly explained by him. The manufacturing processes strategies of Companies like TOYOTA, GENERAL MOTORS, FORD, were discussed.

He gave wide information on hybrid cars and about the fuel scarcity, which would happen after few decades. Then he gave an idea of producing Renewable energy and alternative energy sources, which would replace fossil fuels. At the end of the seminar the students had an interaction session with the resource person. Thus the Students gained immense knowledge from him within a short period of time.



Mr.K.N.Balaji, Senior Automotive advisor, Renault Nissan Technology Business centre India, Chennai.

# Physiotherapy – Updates & Advancements

## STAFF WRITER

As a part of its Silver Jubilee Celebrations, SRM College of Physiotherapy is organizing a two day Conference on “Physiotherapy - Updates & Advancements” on 21st & 22nd April 2017. Renowned speakers in the discipline of Physiotherapy will address the Conference on the latest trends and futuristic perspectives. Delegates from the region will also have the opportunity to interact with specialists in formal and informal sessions.

SRM College of Physiotherapy was started in 1993 by the Founder Chancellor, Dr. Paarivendhar. Post graduate studies in the College of Physiotherapy was



started under the Tamil Nadu Dr. MGR Medical University in 1999. And it is the only College permitted to start all electives of post graduate courses under the Tamil Nadu Dr. MGR Medical University. Moving

to the Kattankulathur campus from Ramapuram in 2007, SRM College of Physiotherapy has the distinction of being the first Physiotherapy College in India to sign MoUs with International Universities - Keele University,



UK and La Trobe University, Australia. SRM College of Physiotherapy has also signed a MoU with National Institute of Empowerment for Persons with Multiple Disabilities (NIEPMD) for Clinical postings and Research

activities. Apart from the routine syllabus, all graduating students, before leaving the Institution, are certified and trained in BLS and ACLS which are American Heart Association Accredited programs

# Team 1.618 and their Journey...

## STAFF WRITER

1.618: What's the mystery behind this number 1.618?

It is the golden ratio also known as “PHI”. It has a relation with every one of us, all the living organisms and the entire universe.

The Team has always received immense support from Dr. K. VijayaKumar (HOD EEE Department). Along with an expert guidance of their faculty advisors Dr. K. Mohanraj (EEE department) and Mr. R. Karthik (Automobile department) guiding them throughout their journey. They participated in Hybrid Vehicle Challenge (HVC'17) Asia's Largest Hybrid Vehicle Racing Competition held at Buddh International Circuit, Greater Noida. It was a dream come true! Soon enough they were at the destination, in the aura of royalty and magic, where racing was the only thing people breathe for. The Event comprises of two component namely Virtual Round & Dynamic Round. Out of the participating 97 Teams they stood All India Second in the Virtual Round. A good feat indeed. For the dynamic round only 46 teams could show up with their vehicles built.

The Event started with a Pre Technical Inspection round by the jury. They cracked

it in the very first attempt. Simultaneously, Corporate Team were giving a presentation on the Business Plan. The presentation included showcasing of the market strategies and future plans and surveys.

Next Day, they aligned the car for the technical inspection round. Technical Inspection determines the fate of the teams whether they progress further in the competition or not. Team having already built the car in accordance with the rulebook faced no issues in clearing the technical Inspection and they were among the very first team if not the first team to clear it. Mission 1 Accomplished. Only 19 participating teams could clear the Technical Inspection Round.

After Acceleration Test, Skidpad Test and Autocross transpired. They were conquered smoothly thereby diluting the high levels of adrenalin rush. They even broke the event record in the autocross owing the success to our engineers and their skilled driver.

They got a chance to go inside the paddock of Buddh International Circuit. The cherry on the cake was a photoshoot on the mesmerizing track. Getting back to the ground, they had multiple rounds lined up. Team prepared for it and lined up the

car for design and innovation round and weight test. The Endurance round, the real test awaited their engineering. After high doses of anxiety, stress and competition, they all were now relaxed that all rounds have ended but anxious because prize distribution was about to commence.

To shorten- they were the Winners in Business Plan & Cost Analysis and Autocross. A runner's up position in Skidpad test, also the second runner-up in Acceleration Test & Endurance. They were also awarded the Go Green Trophy along with an Appreciation Trophy for successfully completing all the dynamic races without any failure in the car. These awards fetched them a prize money of Rs 5,000 (Business Plan) & Rs 10,000 (Autocross). All these awards were no less than jewels that they earned with passion and will. This event and the awards they got were a great confidence booster. Having teams like TEAM 1.618 with a never give up attitude in the campus is not only inspirational for all SRMites but also for providing the students the much needed hands on experience to the real life engineering and it seems they have done a good job so far. So this is what it took to be, from an underrated amateur batch to Team 1.618!





A snapshot of the proceedings

## Workshop on Fuzzy set Theory and Its Applications

### STAFF REPORTER

Department of Mathematics, SRM University, Ramapuram Campus organized one day Workshop on “Fuzzy set Theory and its Applications” recently. Since its inception in 1965, the theory of fuzzy sets has advanced in a variety of ways and in many disciplines. Applications of this theory can be found in artificial intelligence, computer science, medicine, control engineering, decision theory, expert systems, logic, management science, operations research, pattern recognition, robotics, etc.

The purpose of this workshop was to bring together experts and young researchers and provide a platform for discussion on recent advances and developments in Fuzzy set Theory and its applications. More than 80 participants from various educational institutions participated in this Workshop.

The day began with the inaugural function by invocation and lighting the kuthuvilakku.

Dr.Shakeela Sathish, Head of the Department welcomed the gathering. Dean (E&T) Dr. Subbiah Bharathi, appreciated the Department for organizing the workshop for faculty, as it helps in updating one’s knowledge in the latest trends and is very much essential. He said that continuous training, education and exposure to new people and ideas can lead to continuous improvement, motivation, and engagement. Workshops, seminars and conferences add to the skill set and competency of the faculty. He advised the participants to learn research-based strategic learning and teaching practices.

In his felicitation Vice Principal (Academic) Dr.K.C. Udayakumar elaborated, how Mathematics plays a vital role in any discipline of engineering and technology. The Chief Guest Dr.D.Datta, BARC Mumbai, in his inaugural speech, explained the significance and applications of Fuzzy set Theory in various fields.

Inaugural session was followed

by invited talks by eminent Mathematicians.

Dr.D.Datta, BARC Mumbai, spoke about “Sensitivity Analysis, Uncertainty Modelling Machine Intelligence Using Fuzzy Sets”. Dr.Nagoor Gani, Jamal Mohamed College, Trichy elaborated on “Optimization Models in Fuzzy Environment”. Dr.Felbin C.Kennedy Stella Maris College, Chennai explained. “Octagonal fuzzy numbers in decision making problems”. Dr.K.Ganesan, SRM University, Kattankulathur, talked about “Applications of fuzzy set theory in real world problems”. The intensive exposure to the subject, through presentations and discussions led by multiple experts, renewed our motivation to pursue higher productivity and fulfillment of professional and academic goals.

Coordinator Dr.K. Bhavani proposed the vote of thanks. Overall it was a fruitful and enriching technical session. Faculty and research students from various institutions benefited from this workshop.

## An Invited Talk by professor on “An Introduction to Finite Element Method (FEM)”

### STAFF REPORTER

The Department of Mechanical Engineering organized a lecture on “An Introduction to Finite Element Method (FEM)”. The speaker of the session was Dr.Michael R. Gosz, Associate Professor of Mechanical and Materials Engineering, Illinois Institute of Technology, Chicago, USA. Dr.Michael has done his research, on Computational Solid Mechanics. He is the winner of several awards, for excellence in teaching. He initiated the session with overview of finite element method, which is an effective numerical technique, for partial differential equations in Engineering. His lecture turned

phenomenal by the presentations on the methods of FEM. He elaborated the contents of the book on “Finite element method: Applications in solid structure and transfer heat”, which was authored by him. He explained the basics of FEM, by illustrating a problem and solving it with suitable derivations. The global stiffness matrix, used to analyze a member was elaborated by him in detail. He also talked on the application of FEM to solve problems of great complexity and unusual geometry, and in the solution of important problems in heat transfer, fluid mechanics, and mechanical systems. The lecture provided the students, a new approach to work on finite element methods.



Professor Dr.Michael R.Gosz, Associate Professor of Mechanical and Materials Engineering, Illinois Institute of Technology Chicago, delivering the lecture

## We are beautiful, we are unique-Rare Disease Day’17

### KAVYA JAYANTHAN

On a sunny day in the month of March, when people were wiping their brows off the mid-month sweat, The Department of Genetic Engineering of SRM University conducted Rare Disease Day. Rare Disease Day observed usually at the end of February was initially organised by a union of doctors and scientists in different countries in an effort to spread awareness and shed

light on various rare genetic disorders afflicting several people globally.

The day began with the lighting of the lamp by Dr Vairamani, Dean of Bioengineering. Several prominent speakers such as Dr Priya Kannan, Dr Kalpana Gowrishanker and Dr Duraisamy, spoke on rare diseases and the requirement of treatment, Prenatal diagnosis and the importance of Genetic Screening. The highlight of the day was the

welcoming of special children and their families, affected by rare diseases and students from the genetics department actively engaging with them, providing a day of fun and happiness. Along with fun and games, the family members were also provided an opportunity to interact with experts on genetic diagnosis and medical care for their young ones. Apart from the seminars and speeches, several activities were held

such as music and jamming sessions, flash mob and a poster presentation competition. The event took place in an effort to

create a moment of happiness in the lives of the affected with the main message being that what is rare, is truly beautiful.



Participants at the Rare Disease Day

## Expectations From Fresh Engineers



L to R : Mr. P. Rajenthiran - AVP, Gamesa Corporation / Mr. P.S. Shaw - President Kamachi Industries Ltd., / Mr. Murali Balaraman - General Manager, India Pistons, / Mr. Shashikanth Jayaraman - Principal Advisor - Hex Advisory Ltd, / Mr. Srikanth Srinivasan - Country Head, TVS TWG Pvt Ltd.

### STAFF REPORTER

The round table held recently started with the introduction of the round table by hosts Vivek Vasan and Subhashini. The guests were felicitated with a memento. It was followed by the welcome speech by our Dean, Dr. K. Duraivelu. The moderator of the panel discussion was Mr. Shashikanth Jayarman and

started the session with a brief introduction of the panelist. The talk was on the willingness and attitude of the fresh engineers during their fresh year's of work. The panel stressed about the importance of books and the theoretical knowledge and later on the topic shifted to the higher education in which flow the educational motive should be after a fresher at work. A

handful of students raised queries about the current job scenario in the mechanical department and the scope of the job they take up in the near future. Mr. Srikanth Srinivasan stressed on e-learning, listening skill and aptitude. He quoted by saying "life is a long journey hardwork and training our mind leads us to success and stressed about the experience of people plays an important role than the knowledge they have in the field. Mr. Rajenthiran stressed on the commitment towards the job wherever the place you are bestowed to work in is the key to success in the field. Mr. Murali Balaraman was happy to inform that freshers come up with a lot of new ideas and he wanted the freshers to get down to the field and work as long as possible. Mr. Shashikanth later summed up the whole panel discussion and enlightened the students with his immense knowledge. The session came to an end with the signing of the books and a vote of thanks by Prof. S. Ganapathy.



Kumar Chellappan, Special Correspondent, The Pioneer; Shabbir Ahmed, Chief Reporter, Times Now;



## Workshop on "Digital Narratives"

### STAFF WRITER

Young Journalists' Association, a part of Journalism and Mass Communication Department recently conducted a workshop on "Digital Narratives" recently, at the Seminar Hall I of the T.P.Ganesan Auditorium.

The workshop consisted of various interactive sessions where eminent professionals from the field of New Media came along

to share their experiences and knowledge with the students.

Kumar Chellappan, Special Correspondent, The Pioneer; Shabbir Ahmed, Chief Reporter, Times Now; K.A.Johny, Senior Editor, Mathrubhumi; Ramesh Sethuraman, Senior Regional Director, HCL were the speakers who communicated with students.

The workshop was attended by 150 students and certificates were given to all the participants.

## National Conference on Industry 4.0 way forward towards next orbit

### STAFF REPORTER

"Industry 4.0...way forward towards next orbit" is a National level conference organized by Department of Mechanical Engineering, SRM University, Vadapalani Campus in association with National Institution for Quality and Reliability (NIQR). Shri. P. K. Aggarwal, National President - NIQR, New Delhi and Vice President - Corp. Quality, TAFE Ltd., was the chief guest and delivered the inaugural address. During his address, he highlighted the importance on how the world is gradually migrating towards complete digitalization of the industries. Dr. K. Duraivelu, Dean (E&T), SRM Vadapalani campus felicitated the guests. A



L-R : Dr.S.Karthikeyan-HoD Mech, Dr.S.Kesavan-HoD MBA, C.V.Gowri Sankar-Secretary NIQR Chennai, K.Manikandan-Chairman NIQR Chennai, P.K.Aggarwal-National President NIQR, Dr.K.Duraivelu-Dean [E&T] SRM Vadapalani, Dr.C.Gomathy-HoD ECE, Mrs.B.Padmavathy -HoD CSE during the release of Conference Proceedings

keynote address was delivered by Shri. K. Manikandan, Chairman - NIQR and Head - Sourcing Development, Ashok Leyland. Earlier, Dr. S. Karthikeyan, Professor and Head, Department of Mechanical Engineering, welcomed the dignitaries, invitees and participants. The proceedings of the conference were launched by the dignitaries. Students from different Engineering colleges participated and presented papers on the conference theme. Industrial professionals were

invited to act as jury members in order to evaluate the paper presentation. Shri. S. Rajasekar, National Vice President - NIQR and CEO, Infant Engineers Pvt. Ltd delivered the valedictory address. During his address he shared how the concept of Industry 4.0 can be implemented in agricultural practices and industries. The best papers were given awards in the valedictory function on the same day. This conference was an event of grand success.

## A Spectacular Math Fest

### STAFF REPORTER

The Department of Mathematics on behalf of Sri Ramanujan Mathematics Club conducts every year two fests. One is an intra-collegiate mathematics fest called IMF where students of SRM University participate and win the events and cash prizes. These winners represent the University at inter college level. The Second one is an Inter college mathematics fest in which students from various institutes and engineering colleges in and around Chennai are invited to participate and win exciting cash prizes. This inter college fest is known as Engineering Mathematics Fest abbreviated as EMF. This year's EMF was conducted recently at New Seminar Hall ESB block. The inauguration of the fest began with the welcome address by the Head of Department of Mathematics, Dr. A. Govindharajan followed by Secretary's Report by C. Baranesh. The Chief guest for the fest was Mr. V. S. Prakash

Attili, the Principal, Education, Training and Assessment Division, Infosys, Chennai.

The Fest Day saw the prelims of Crossword, Quiz and Dumb C and other events like Puzzles and IQ, NFS and the finals of Crossword, Quiz and Dumb C. 400+ participants from various institutes and engineering colleges mainly from Jilin University, China, NIT Trichy, SASTRA University, Tanjore, participated leading to a great success of EMF'17. The Spectacular fest was wound up with prize distribution ceremony which had 23 winners including those of team and individual events. The total prize money was a whopping amount of Rs.20,000 provided by the sponsors. The event came to an end with vote of thanks by Ms. G. Nivetha, Event Head Coordinator. All the Club members including the office bearers, event coordinators and volunteers were appreciated for their hard work.

“...he highlighted the importance on how the world is gradually migrating towards complete digitalization of the industries...”

“.... 23 winners including those of team and individual events. The total prize money was a whopping amount of Rs.20,000 ...”

## One day workshop on Implementation of FPGA for Power Electronic Drives

### STAFF REPORTER

The one day workshop began with registration of 30 participants registered from various engineering colleges in and around Tamilnadu. The Inaugural function started with the welcome address by Mr.K.Selvakumar AP/EEE and Presidential address was given by Dr.K.Vijayakumar HOD/EEE.

The workshop commenced

with the Introduction to FPGA by Mr.R.Palanisamy AP/EEE and various sessions followed like, Demo on single pulse and six pulse generation by Mr.R.Narayanamoorthy, hands on training on single pulse and six pulse generation by Mr.R.Palanisamy & Mr.R.Narayanamoorthy, Interfacing of FPGA with hardware. Valedictory was presided by Dr.K.Vijayakumar HOD/EEE who distributed the certificates to the participants.



*A group of students at Melam*

## Where traditions come alive

### SHUBHENDU OJAS TEWARY

MELAM, a fest which brings out the rich cultural heritage of our neighbouring state, Kerala was celebrated recently with all the zest and zeal in T.P. Ganesan Auditorium. For past six years, Malayalees at SRM have been conducting this festival, which consists of a fusion of competitions and various cultural events. SRMites perform in these events to showcase their talents on stage in the jam-packed auditorium. The MELAM Roadshow and

The Bike Rally announced the arrival of Melam in the campus. The whole campus had some Kerala essence with people walking in munds and sarees. The celebrations started with Tug of War in Audi Ground, which was played while exhibiting good sportsmanship. The main event started around 1:00 pm at T.P. Ganesan Auditorium with Chendamelam, which was followed by numerous dance and music performances, mimicry, drama and last but not the least fashion show. The Chief Guest was director of E&T, Dr C. Muthamizhchelvan.



*MELAM Roadshow*



*Dr.K.Vijaya Kumar HOD/EEE with the participants*

## Semicolon 2.0=Clash of the Coders

### VASUNDHRA IYENGAR

The new edition of the coding competition, Semicolon, took place at Tech Park recently. The event was organized by the IT Association for the second time since its inception. The ground floor of Tech Park was brimming with people waiting to register themselves for the event. The flagship coding event saw a participation of around 407 students from not only the conventional branches of CSE, IT and Software but also from branches like Mechanical. Once successfully registered, the students were sent to the lab on the fourth floor where the actual competition took place. The flawlessly managed event held in collaboration with HackerRank consisted of three rounds of scenario based coding. With the difficulty increasing in each level, 150 made it to the penultimate round and finally only 15 made it to the last round. As seen in various coding events, the competition was neck to neck leaving no scope for mistakes. The participants had to deliver their best under the pressure built by the ticking clock.

After careful deliberation, Harshvardhan and Siddhant Nayak were awarded the first position followed by Jerin Varghese and Shardul Silswal as the first and second runners-up respectively. Kashish Agarwal, a member of the IT Association said, "I'm happy with the way the event turned out and we're looking forward to organizing more such events to encourage the students." Semicolon 2.0 served as a stepping stone for the coding enthusiasts as they got a chance to test their skills against real competitors. It further motivated them to participate in other coding contests to hone their skills. The successful event came to an end with the winners and the organizers feeling proud of their accomplishments.



*Coders in their natural habitat*



*Members of the IT association deliberating*

# Be Bold for Change...

ANMOL SARAH  
MATHEW

What if the world truly stepped up to take bold action? Will you Be Bold For Change on International Women's Day 2017 and beyond by taking ground-breaking action that truly drives the greatest change for women. Each one of us - with women, men and non-binary people joining forces - can be a leader within our own spheres of influence by taking bold pragmatic action to accelerate gender parity. Through purposeful collaboration, we can help women advance and unleash the limitless potential offered to economies the world over. Hence, SRM University celebrated this International Women's Day, with the help of various departments from B.Tech to the Arts and Science, MBA, and Medical Departments. This initiative was taken by members of the Grievance Cell and by coordinating the staff members from various field and departments pledged to do everything by which one can overcome entrenched prejudice, support engagement and activism, and promote gender equality and women empowerment. Women's Rights are Human Rights. But in these troubled times, as our world becomes more unpredictable and chaotic, the rights of women and girls are being reduced, restricted and reversed. Empowering women and girls is the only way to protect their rights and make sure they can realize their full potential and so in a short period of time, the staff and students accomplished the task on creating a successful event, which was highly appreciated by the Chancellor. In order to empower women, series of events were entertained so as to motivate them in exhibiting their talent, says Dr. Santhanalakshmi, Asst. Professor, Management Department. For the first time in history, the celebration being so intriguing that the

faculties took an initiative in these events along-side students promoting the main ideology behind this day.

The world of work is changing fast, through innovation, increasing mobility and informality. But it needs to change faster to empower women, whose work has already driven many of the global gains in recent decades. Therefore, Dr.N.Chandrababha, Director – Health Sciences & Chairman Medical and Women's Grievances, promoted the idea of cultural and sports competitions to take part inside the campus and the astonishing participation was a mystery for everyone as this celebration has been taking place for the past 2 years. This year, with all the blood, sweat and endurance, they got an outstanding acclamation from the Chancellor. Prize-distribution to appreciate the hard-work of the faculties and the students took place in Dr. T.P.Ganesan Main Auditorium. with the respectable Chancellor of SRM University, Dr. T.R. Paarivendhar distributing the prizes. Dr. Kalpana Sarkar, Managing Trustee of Hand in Hand, India was the honourable Chief guest alongside were, the guest of honour, Mrs. Mangalam Balasubramanian, Founder and Managing Trustee, Exonora Green Pammal and Dr. N. Sethuraman. Dancing, Adapt-tune, Power of thoughts, Whistling Cockatiels, fashion show were some of the events that featured the idea of women's potential to reach greater heights, says Nilaa, who was a volunteer. For each event at least two faculties had taken up the work to make the event successful being a supporter of women. Forming awareness to help forge gender parity on International Women's Day (IWD) and beyond had been the reason behind this celebration and hope that one day, students of SRM University can be an important catalyst and vehicle for driving greater change for women and moving closer to gender parity.



The Founder Chancellor at the Celebrations

## International Women's Day Celebrations - 2017

STAFF REPORTER

International Women's Day made a testimony of another day, the day of global celebration dedicated to women recognizing their triumph and tribulations. The ceremony started with the welcome dance by faculty members. Program commenced with a welcome note by Dr.N.Chandrababha, Director – Health Sciences & Chairman Medical and Women's Grievances and Redressal Committee. In his Presidential address the Chancellor congratulated the women achievers of the day, the Chief Guest and Guest of Honours. He also wished to mark a special day for men to celebrate Men's day.

Chief Guest Dr.Kalpana Shankar, the Managing Trustee-to Hand in Hand India, who committed herself passionately for the self help group for about 21 years, addressed the gathering with motivational stories of real life women achievers of her life. She stressed to respect & celebrate the "Women of the family", The Mother, from where every woman achiever is raised.

Guest of Honor Mrs.Mangalam Subramaniam, the Founder & the Managing Trustee, Exnora Green Pammal, addressed the gathering with her life experiences, stressed the importance of solid and liquid waste management, shared the story of her organization, which was considered as the award winning example of solid waste management and public - private partnership.

Ms.Preethi Srinivasan, the founder of Soul Free, was another guest of honor. She said that, in spite of her insurmountable challenges she faced after a freak accident that left her paralyzed to the state of equipoise, she has bravely managed to voice the needs of the disabled – the invisible section of the society — with unconditional support and care of her parents. She shared her life story, of reconstructing herself to the present level of supporting, enabling independent living of the positively abled, by providing long term rehabilitation centres. She is a real women achiever and aligns to the theme of this year's "Be bold to change". She is a sakthi awardee of Pudhiya Thalaimurai this year. The Registrar, felicitated the gathering.

In view of IWD 2017 a week long program of various events in the form of competitions exhibiting the skills of faculty, students and staff were conducted and prizes distributed to all winners.

NIPMD donated free Hearing aids that were distributed to



A Dance performance

the special children of SRM Rehabilitation & Empowerment Centre. Sensory garden was initiated for the special children of SRM Rehabilitation and empowerment centre, inaugurated with first sapling plantation by the Honorable Chancellor followed by around 500 sapling plantation. Free screening tests on Vitamin D estimation and bone mineral density and Mammogram & Pap smear were done at 50% concession in SRM Medical College Hospital & Research Centre.

Dr.Poovammal, Vice-Chairman, WGRC proposed the vote of thanks.



Nail Art competition



Judges and participants engaged in an event



Faculty of Dept. of Computer Science and Dept. of Computer Applications

# Tech Utsav

SHREYA & AISHWARYA

TechUtsav was the national level technical event held recently, jointly conducted by the Department of Computer Science and the Department of Computer Applications. The annual event encourages students to showcase their talents and skills in the field of technology and strives to broaden their fields of interest under Science and Technology through projects. This year, TechUtsav had multiple events held across the campus, like the Techonic Debugging Contest, the Intel Inside Quiz and PortrayIt Paper Presentation. The debugging competition comprised one or two membered teams which were given the task of debugging an incorrect code. The team that debugged the code in the shortest duration of time won the competition. The Intel Inside quiz tested participants based on concepts from discoveries, researches, computer basics and latest developments in information technology. The PortrayIt paper presentation event, provided students a platform to present their ideas on topics like E-wastage, Cloud of Things, Fusion Memory, Reinforcement in Data Security, IP and Web Spoofing. The teams were judged on the quality of their abstracts and presentations.

A variety of non-technical competitions like Capture the Flag, Mad-Ad, Spectra, Prisma, Respawn were also held to encourage student interaction and participation in domains such as photography and gaming. The event was a success and gained recognition for the platform it provided to the students across the country and was well received by the student body of SRM University.

# Foodomics'17

DRISHTI PARWANDA

FOODOMICS'17 was a national-level conference organised by the department of Food Process Engineering. It was organised recently in the MBA Seminar hall. The Chief Guest for the evening was Dr N. Balaraman, Former Vice chancellor, TANUVAS, who highlighted the importance of food sciences and the challenges that occur in food processing. Dr M. Vairamani, Dean of School of Biosciences, also addressed the gathering and urged the young food engineers to focus on innovation and invention.

The two day conference witnessed a plethora of eminent

personalities from various renowned institutions, in the field of food processing. They covered a wide array of topics ranging from food packaging regulations to the effects of probiotics. Along with various speakers, the conference had several technical and non-technical events organised by the department. The technical events included Paper Presentation and Poster Presentation. Non-technical events like "challenge your taste buds" was much appreciated by the participants, which prompted them to taste various food items (that too for free!).

The second day proceeded with the exhibit of the posters

in the poster presentation, depicting various highlights of food processing industry. Several other speakers delivered their address on the second day. The key attraction of day two was the interactive session between the students and several alumni like Ms P. Sumitha, Mr Jaya Prabha, etc., who are now successful food entrepreneurs. This was duly acknowledged by the students as they were highly inspired from the personal experiences of these alumni. At the end of the session, trophies and certificates were awarded to the winners. The conference came to an end igniting a fire within the hearts of the young food engineers pursuing them to aim for the top.



The winning participants receiving awards at the FOODNOMICS'17 event



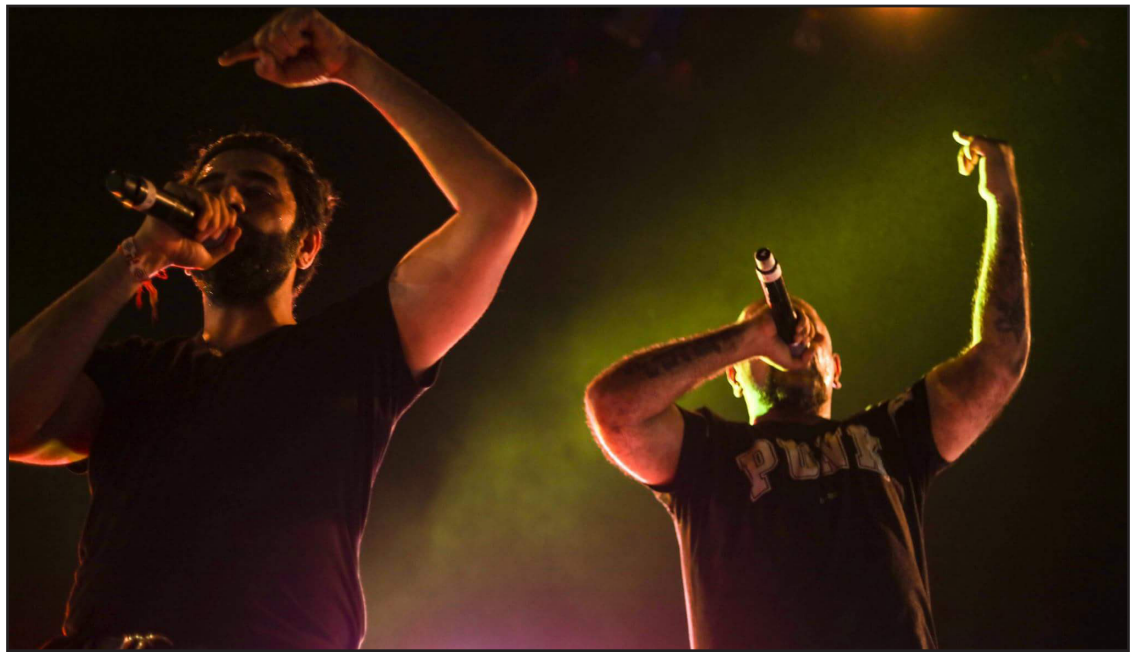
## Restosculpt – II An Interactive Learning

AATISH NAIR

The Department of Conservative Dentistry and Endodontics of SRM Kattankulathur Dental College conducted an event, Restosculpt-II, a continuing dental education programme held recently at T.P. Ganesan Auditorium. Esthetic Dentistry is a growing trend both in material science as well as in technological aspects. The programme was aimed at emphasizing the art of creating a beautiful smile within a short period of time using latest materials and technologies.

The programme had a lecture on managing midline spacing between teeth using composite

restorations. The lecture was delivered by Dr. Nikhil Bahuguna, guest speaker from Noida U.P. The programme also had an interactive session with the audience and live video demonstration on how to manage spacing between teeth with the latest materials and techniques that is best available today. The programme had about 150 participants, at both undergraduate and postgraduate level from various dental colleges across the state. Prof. Dr. Vijay Venkatesh, organizing chairman of Restosculpt on behalf of the department thanked everybody who had been a part of this program for making it successful and memorable.



Glimpse from Milan'17

# Milan'17 – The Decade Edition

AATISH NAIR  
VASUNDHRA IYENGAR  
NAVANEETHA VARIER  
AISHWARYA  
DRISHTI PARWANDA

Milan is an apotheosis of cultural extravaganza organized by SRM University, and this year it was even better as it was the 10th edition of this enriching exhibition, lasting for five days. This mesmerizing illustriousness had hosted a magnitude of celebrities like John Abraham, Kamal Hasan, Siddharth and this year it was no exception.

On the opening day at TP Ganesan Auditorium (SRM University, Kattankulathur), it was Bollywood's latest dreamboat, Mr. Aditya Roy Kapur, to grace the occasion as the chief guest for Milan '17. The program commenced by Mr. Kapur lighting the lamp. The Director of Students and Campus Life, Dr. Col. P. Ramchandani and the Assistant Director Mr. Jawahar Philimis gave excellent advice to

the students about how they can benefit from these cultural and sporting activities. Prof. Prabir K. Bagchi, Vice-Chancellor, SRM University, talked about Milan being a week full of celebration while encouraging the students to enjoy the events and unveil their talents. The ceremony was also felicitated by Dr. T. P. Ganesan, Pro Vice-Chancellor of SRM University.

Mr. Kapur thanked the ecstatic crowd for the wonderful event before officially closing the ceremony. Following the closing ceremony was the, 'Musical Night', which took place at Audi Grounds and starred siblings Palak and Palaash Muchhal, as well as a very famous entertainer, Anushka Manchanda.

On the second day, across 12 different domains (Aeromodelling, Environment, Drama, Music, Sports, Gaming, Literary, Fashion, FunZone, Creative Arts, Dance, and Online), began 120+ events organized to test the skills and talent of thousands of students who took part in this

fest. Events like Cross Man Out, Aero Championship, Football 5'S, SRM Talk and those of the Gaming fest were a big hit among the students.

The Vogue Way began with Ms. Sherlin Seth, the winner of Fbb Colors Femina Miss India '17 Tamil Nadu, opening the show with her glamorous walk. Teams from SRM-R, New College, NIFT, Loyola College, Lady DOAK, and Crescent College walked the ramp and presented their designs to the crowd. The judges, Mr. Bharat Raj, Ms. Abirami, and Mr. Walter, judged the contestants on multiple criteria including their style, design and their ramp walk.

The highlight of the 3rd day was the Vishal-Shekar concert held in Audi Grounds. The music directing duo and famous composers, Vishal Dadlani and Shekhar Ravjiani made the crowd groove to amazing songs like 'Ankhon me teri' and 'Om Shanti Om'. The artists praised the crowd for being interactive and cheerful and

encouraged them to believe in their dreams and work hard towards achieving them. Battle of Bands, as the name suggests was an event in which various student bands competed amongst each other for a hefty cash award which was the event of the day. The auditorium cheered as students from various universities mesmerized everyone with their Folk Dance performances.

The fourth day saw the third and final rounds of the sports events as well as events like Solo Classical, Roadies and All Style Battle from the dance domain. Wall Painting was another event which was a treat for all the painters out there. Open Sky Slam was a spoken word slam poetry competition with an open sky setting accentuating the whole event. Choreonite saw amazing dancers from various colleges leaving everyone spellbound with their extraordinary performances. The second pro show was held in the Audi Grounds and was a treat to all those who attended Milan 2017. The final day of Milan '17 began with a splash

of exciting events like All Style Battle, Rap Battle, Disputatio, and Group Battle. As the evening approached, the crowd began to intensify in lieu of the much awaited stand-up comedy event by Kunal Rao and Sahil Shah of the East India Comedy. The talented duo managed to colonize the audience with their relatable and hilarious jokes. With the end of the comedy show, came the realization of the approaching conclusion of Milan. The valedictory ceremony soon began with the cultural secretary addressing the gathering, followed by the prize distribution. Other members of the organizing team were felicitated with mementos as a gesture of gratitude for their contribution to the success of the fest. Milan '17 wrapped up with Anindya Ojha, the cultural secretary presenting the vote of thanks. Tavishi Priyam, a first year CSE student said, "This is my first Milan and it was an absolutely amazing experience." As the grand tenth edition of the fest came to a close, proud and beaming smiles were seen on the faces of organizers as well as the spectators.

## “Do Engineering with LabVIEW”

### STAFF REPORTER

It was one sensational evening when, a student team from SRM University won the prestigious award at the National Level Projects Exhibition-Shrishti'17 held at Saintgits College of Engineering, Kottayam. The competition witnesses more than 100 teams from all across India, that converge together to compete against each other and emerge triumphant in the race for innovation.

The student team from SRM University consisted of 2 final year students from EEE Department, namely, Ajith Raj and Ashutosh Kumar and a pre-final year student from EIE Department, namely, Jatin Verma under the guidance of Dr. J. Preetha Roselyn, Assistant Professor(Sr.G). The students had participated under the “Do Engineering with LabVIEW” domain that focusses on projects that are based on National Instruments Hardware and LabVIEW software and won the first prize, that is, worth around INR 50000 in hardware apparatus, sponsored by National Instruments.

The student team from SRM University designed a “Brain

Computer Interface based Quadcopter Control” system which was a offbeat approach in Quadcopter flight control. The system deals with controlling the motion of the Quadcopter using brainwave signals. The system was designed to be scaled up for robust full scale manoeuvrability through gestural control.

The team of final year students had been working extensively on newer avenues for Brain Computer Interface based systems, they were also very well versed with the National Instruments Hardware and Software modules by working on numerous projects in NI Research Lab in EEE Department under the guidance of Dr. J Preetha Roselyn. Notably, Ajith Raj and Ashutosh Kumar had also won the Best Popular Choice award at Shrishti'16 for their Brain Computer Interface based Vehicle Assistant project. From the advent of MIT's project on prosthetic arm control using brain Signal and Elon Musk's new startup venture, Neuralink, that is, based around the idea of BCI, is an emerging field of research which is going to become the next Disrupting technology in the near future.



Members of the IEEE student branch SRM

## Alpha - The IEEE Entrepreneurship Summit

### STAFF REPORTER

The IEEE Madras Entrepreneurship and Innovation Committee in association with SRM IEEE Student Branch organized ‘ALPHA’- The IEEE Madras Entrepreneurship Summit 2017. The event was attended by dignitaries like Dr. HR Mohan (Vice chair of IEEE Madras section), Mr. Nivas Ravichandran (Young Professional coordinator for Region 10) and SB counsellor Mr.Vijayakumar (HOD of EEE at SRM).

The programme took place at ESB block, on 18th March from 8am to 5pm. It started with networking among the various participants, where they gathered knowledge and escalate their idea with one another. Among the other renowned speakers were Mr. Isaac John (Co-founder of Ink-monk), the CEO and the Managing Director of Bewo Technologies, Mr. R. Sampath and Mr. Deepak John (CEO and MD PupaClic), a software company based in Chennai.



Dr.C.Muthamizhchelvan, Director (E&T) felicitating the speaker of the day

The whole event witnessed a number of passionate budding entrepreneurs, with over 70 registrations, listening and actively participating in the speeches and interactive sessions driven by different established entrepreneurs.

The IEEE branch of SRM is currently a team of 60 members, including 9 executives and remaining student volunteers, of

various departments, dedicated to advancing technological innovation and excellence for the benefit of humanity. The team is chaired by Pranav Bharadwaj.

“Alpha” IEEE Entrepreneurship Summit 2k17 ended on a good note by Mr. Harish Srinivasan, co-founder of Infinite Engineers, who thanked all the organizers of the event and the IEEE team.



(L-R), Dr J Preetha Roselyn-Assistant Professor (Sr.G), Jatin Verma, Ajith Raj, Ashutosh Kumar, Dr. K. Vijayakumar(HOD EEE)

## National workshop on Effective Writing of Engineering Journal Paper and Thesis

### STAFF REPORTER

Department of Electrical and Electronics Engineering, SRM University, Kattankulathur conducted a National Level Workshop titled “Effective Writing of Engineering Journal Paper and Thesis” The inaugural function was felicitated by the chief guest Professor Dr. T. Thiagarajan, MIT campus, Anna University, convenor

Dr.K.Vijayakumar Professor and Head of the department of EEE, Senior Professors Dr.R. Jegatheesan and Dr. Subhransu Sekhar Dash and the coordinator Dr. C.Subramani and Mr.R.Narayanamoorthi. Nearly hundred participants from various institutions registered for this workshop. The workshop was well planned and scheduled with eight sessions from eminent person from different professional

society and university. The speakers were Dr. T. Thiagarajan (MIT Anna University), Dr. P. Somasundaram (Anna University), Dr.S.Umashankar

(ELSVIER Journal Editor), Mr. Akshya Prasanna (IEEE Editorial Member), Dr. T. Rama Rao (SRM University), Dr.C. Bhartiraja (SRM University),

Dr.J.Preetha Roslyn (SRM University), Dr.P.Rajendiran (SRM University). The sessions were Research Preparation Planning and Ethics - Problem Identification, Literature, Resources - Paper Structuring /Citation/ Impact Factor/ H index- Hands on Training- Article Guidelines and Reference Management- Editor and Reviewer Expectation- Effective Journal/ Thesis Writing- Research methodology for Engineers and Plagiarism, GrammarCheck. Finally, in the valedictory functions the certificates issued to the participants.



From L to R : Dr.C.Subramani A.P / EEE, Dr.R.Jegatheesan Prof / EEE, Dr.K.Vijaya Kumar HOD/EEE, Dr. T. Thiagarajan (MIT Anna University), Dr. R.Ramanujam Pro/EEE,Dr.S.S.Dash Prof/EEE



Dignitaries Lighting the Lamp

## Bio Ethics – a study of moral dimensions

### STAFF REPORTER

Ethics is the study of moral behavior. It refers to our actions that are determined by moral decisions, which are based on our values.

Ethics is derived from the Greek word ethos, meaning “The distinctive character, spirit and attitude of a cultural group”.

The cultural group we are concerned with here is medical professionals. The distinctive character of this group of medical professionals is a commitment to care for the sick and promote health in society.

“Bioethics is defined as the systematic study of the moral dimensions – including moral vision, decisions, conduct and policies – of life science and healthcare, employing a variety of ethical methodologies in an

interdisciplinary setting”

A Three days 3T Bioethics Workshop was organised by 3T-IBHSc which is an initiative of the Indian Program of the UNESCO Chair in Bioethics Haifa and Association of Indian Health Sciences University at SRM University. This was organised under the leadership of Prof.P.Thangaraju, Pro Vice Chancellor Medical, Head INBC for deemed Universities. There were 51 participants which included Assistant and Associate Professors from various disciplines of SRM Medical College, Dental College, Nursing College and College of Physiotherapy. The Accredited Training faculty included Prof. Dr.Russell D’ souza, course Director, Melbourne, Australia, Prof.Dr.K.Gireesh Deputy Dean & VP, SRM Medical College Hospital and Research

Centre, SRM Unit Coordinator, Prof.Derek D’souza, Sikkim Coordinator 3T course, Prof. Dr.Barna Ganguly Anand Gujarat, Prof.Pankaj Shah, SRU Chennai, Prof.Pushkala subramaniam and Associate Prof.Sivasangeetha from The Tamil Nadu MGR University. The topics taken include the following:-

- History, Principles, codes & Guidelines of Ethics
- Universal Declaration on Bioethics & Human Rights
- Autonomy & Consent
- Ethical dimensions of Teaching Bioethics
- Equality, Justice & Equity
- Privacy & Confidentiality
- Environmental Ethics & Biotechnology
- Benefit & Harm
- Human Dignity & Human Rights
- Vulnerable Population, Gender Disparity and Protection

- Emotional Intelligence in Knowledge Transfer
- Ethics and Professionalism
- Innovative methods of teaching
- Ethical Deliberation
- Case Based Teaching/ Learning
- Research Ethics
- Communication skills
- Assessment Technology: Course, Teacher, Students
- Integrated bioethics
- Simulated Teaching Assessment
- Curriculum Integration of Bioethics to Subjects

In the inaugural session Pro Vice Chancellor (Medical), highlighted that the first Nodal Centre for national bioethics was started at SRM under his leadership. And with the guidance and governance of Prof.Russell D’ souza it has spread all over India. Prof.Russell D’ Souza, Prof.Mary Mathew and team has now trained over

1400 faculties from various Universities and they in turn will train undergraduates and Postgraduates of the respective colleges on bioethics. Prof. Russell D’ souza in his address said that Prof.Geethalakshmi Vice Chancellor, the Tamil Nadu Dr.M.G.R Medical University has incorporated bioethics into the medical curriculum and is being planned to be taught in all the medical colleges that come under the Tamil Nadu Dr.M.G.R University. Prof.Russell D’ souza also said that the President of Medical Council of India in principle has agreed the proposed bioethics curriculum put forth by them and very soon it will form part of the regular medical curriculum. A book on certain facets of bioethics was released. Dean welcomed the gathering. At the valedictory function certificates were distributed to all the participants.

## News from the courtside

### SHUBHAM SAHU

Sports being the emblem of teamwork and strength, reflects a lot about a university. SRM being one of the vibrant universities in India provides tons of possibilities for the students to discover their talent, explore it and succeed in it. One such stage was set by the university when it conducted the National Inter-University Ball Badminton tournament recently. The Pro-

Vice-Chancellor (Medical) Dr. P. Thangaraju inaugurated the tournament. Around 150 teams and 1800 participants, consisting of students, coaches and managing staff from all over India participated in this three-day tournament. SRM university stood first in the men’s category and secured third position in women’s category. The tournament came to an end with prize distribution ceremony and valedictory speech by Pro-

vice chancellor (P&D) Dr. T. P. Ganesan. Furthermore, Students of SRM performed extremely well at the National Inter-University Tennis Tournament and stood first, which was conducted in Haryana at Guru Jambheshwar University. Moreover, Elwin Antony (Journalism, 3rd year), Mohit Mayur (BBA, 1st year) and Anirudh Chandrasekar (B.COM, 1st year) qualified for the World University games, which is a matter of high repute



for both the students and the university. Men’s basketball, hockey, football, kabaddi and table tennis teams have qualified for the Nationals after performing

extremely well in the South Zone. Wishing a very best of luck for the National Tournament to the teams and for the world games to the selected players.

# SRM University bags IET Awards



Mr. Sagar Sahni winner of 'IET CLN YP Trend Setter of The Year Award'



Ms. Swasti Saxena winner of 'IET CLN YP Leadership Award Network Level'



Mr. Sanyam Jain winner of 'IET CLN YP Activity Award'

## STAFF REPORTER

The IET CLN & YP Awards is an award ceremony organized by the YP team of Chennai local Network in order to felicitate the achievers of IET. The award ceremony for the fiscal year 2015-16.

Various students and faculties from different colleges like SRM University – Kattankulathur & Vadapalani Campus, KCG College of Technology, Hindustan University, Vellore Institute of Technology, RMK College of Engineering & Technology, Easwari Engineering College, Aalim Muhammed Salegh College of Engineering, Saveetha School of Engineering, Swarnandra College of Engineering & Technology etc. attended the event.

The Chief Guest for the event was Mr. G. Kannan, Former Scientist 'G', Additional Director at CVRDE. He is also the Director of NDE Center at AMET University. Various Dignitaries from IET Chennai Local Network were present like Dr. Suresh Kumar, Chairman 2015-16, Dr. S. S. Sridhar, Vice-Chairman 2015-16, Dr. Cloudin, Vice-Chairman 2015-16, Dr. Vijay Kumar, Secretary 2015-16, Dr. E. Poovammal, Treasurer 2015-16 and Dr. Gomathy, Joint

Treasurer 2015-16. Members from Young Professional team Mr. S. Prasanna Bharti and Mr. Vasanthakumar Sekar were also present at the event.

From SRM University, Mr. Sagar Sahni, Final year student in B.Tech. – Computer Science and Engineering won the IET CLN YP Trend Setter of the Year award. It is awarded to the best outgoing student of a particular student chapter celebrating his/her outstanding performance in all domains of his/her Engineering career. He is also the "Chairman" of The IET SRM Student Chapter for 2016-17. Ms. Swasti Saxena, Penultimate year student in B.Tech. – Computer Science and Engineering won the IET CLN YP Leadership Award-Network Level. It is awarded to the student for his/her outstanding performance in the particular category and for his/her commendable contribution towards promotional activities, leadership & organising skills. She is also the "Vice-Chairman" of The IET SRM Student Chapter for 2016-17.

Mr. Sanyam Jain, Penultimate year student in B.Tech. – Computer Science and Engineering won the IET CLN YP Activity Award. It is awarded to the student member of a particular student chapter for his / her commitment

towards regularity, extra and co-curricular activities. He is also the "Secretary" of The IET SRM Student Chapter for 2016-17.

The most awaited award of the ceremony was IET YP Dynamic Chapter Award awarded to an IET student chapter for its commendable contribution towards the growth of IET. With all student chapters across Chennai Local Network competing to win this most coveted award, The IET SRM Student Chapter at SRM University, Kattankulathur became the pioneer taking the trophy to their college. The Faculty Advisor and HOD-CSE Dr. B. Amutha along with the Student Chapter office bearers got the award from Mr. G. Kannan, the Chief Guest of the event.

The event was organized under the able guidance of Mr. S. Prasanna Bharathi, IET CLN YP Secretary 2015-16 along with team constituting of Ms. G. K. Sandhia, Mr. Inian, Mr. Karthikeyan and Mr. Srinivasan along with student volunteers from SRM University, Vadapalani.

Overall the event was a grand success and ended on a high note motivating all student chapters to work even more for the fiscal year 2016-17.

# Mathematics enhances the ability of Students!

## STAFF REPORTER

An innovative engineer is the one who is creative; and creativity comes from good imagination and abstract thinking. Therefore, a successful innovative engineer is the one who most likely equipped himself/herself with substantial knowledge of Mathematics. Mathematics enhances the ability of students to engage in abstract thinking and it also arouses their imagination.

The successful outcome of any educational program is highly dependent on how the students learn and how effectively they can function at the workplace after completion of their study. Integration of modeling in general and mathematical modeling in particular in engineering education may provide the most suitable delivery system

for engineering programs. Mathematical modeling is a powerful tool in engineering education that enables its users to minimize time and cost in design process.

To understand the applications of Mathematics in Engineering; Department of Mathematics, SRM University Ramapuram campus, organized "An interdisciplinary Mathematical Modeling Competition based on Engineering Applications" was organised for the students. More than 100 teams registered, out of which selected 35 teams participated with many innovative ideas.

Dr. Y.V.S.S. Sanyasiraju, Professor, Department of Mathematics, IIT Chennai and Dr. Shruthi Dudev, Associate Professor, Department of Mathematics, IIT Chennai, were

the judges. While announcing the prizes, judges said that Mathematics enhances the ability of students to engage in abstract thinking and it also arouses their imagination. They mentioned that the models displayed in the competition were of high standard and advised the students to continue their efforts. They appreciated the Department for conducting the competition, thereby initiating the students to learn the applications of Mathematics in Engineering.

Dr. V. Subbiah Bharathi, Dean (E&T) Said "Learning about mathematical modeling is an important step from a theoretical mathematical training to an application-oriented mathematical expertise, and makes the student fit for mastering the challenges of our modern technological culture." Vice Principal Dr.



Showcasing Mathematical models

K.C.Udaiyakumar congratulated the Department of Mathematics for encouraging the students to think beyond curriculum.

Amber Gupta, Adithya Ars, Sayan S, Souravdeep Datta of ECE Department won the 1st Prize. Binayak Deb Gupta, Shantanu Srivastav, Ravi

Shankar C. S. Vignesh K of EEE Department won the 2nd Prize and Mayuk Das Gupta, Ankur Ankit, Ankush Rai of CSE Department won the 3rd prize. Dr. Shakeela Sathish, HOD/ Mathematics welcomed the gathering and S. Leoni Sharmila Asst. Professor proposed the vote of thanks.



Dignitaries releasing proceedings of NCAMMT 17. From Left : Dr. G. Dan Sathiaraj (AP / Mech), Dr. S. Karthikeyan (HoD / Mech), Dr. V. N. Mani, (Scientist-E, Centre for Materials for Electronics Technology, Hyderabad), Shri K. Palanivel Raja (Director & Head (CIPET)), Dr. K. Duraivelu, Dean (E&T), Dr. Suresh Kannan I (AP / Mech)

## 'National Conference on Advances in Materials and Manufacturing Techniques' - (NCAMMT'17)

### STAFF WRITER

NCAMMT'17 is a National level conference on 'Advances in Materials and Manufacturing Techniques' organised by the Department of Mechanical Engineering, SRM University Vadapalani Campus. The Conference commenced with the Inaugural function. Shri. K. Palanivel Raja, Director & Head of Central Institute of Plastic Engineering & Technology (CIPET), Chennai graced the occasion as the Chief Guest and presented the inaugural address. He shared his concern on conference topics and gave valuable speech on plastics tooling & product development in the industry through his experience. Dr. V. N. Mani, Scientist-E, CMET, Hyderabad was the Guest of Honor. Dr. K. Duraivelu, Dean [E&T], SRM University Vadapalani campus gave the felicitation address. He gave introductory remarks about the conference and felicitated the guests and participants. Dr. S. Karthikeyan, Head of the Department proposed the welcome address. The conference proceedings were released by the Chief guest and guest of honour. Dr. G. Dan Sathiaraj proposed the vote of thanks. All HODs, faculty members of various departments, participants from various colleges, research institutes and Students were present during the occasion.

The conference attracted a good number of papers from MIT-Chennai, Anna University-Chennai, Velammal Engg., College-Chennai, ARCI-Hyderabad, CIPET-Chennai,

and CISR-Chennai, Osmania University-Hyderabad. Around 120 papers were received for the conference and 89 papers were selected for the presentation based on the quality and theme. The first key note address was presented by Dr. V. N. Mani. He delivered a lecture on "Design & Development of Systems for Preparation of High Pure Gallium & Indium and their Materials and Devices for Advanced Electronic Applications – A Bird's Eye View". In his overview presentation advancements, current trends and practices pertaining to the harnessing and sourcing electrical energy using Concentrator Photo Voltaic (CPV) technology concepts were discussed. Second key note address was delivered by Dr. Amitava Ghosh, Associate Professor, Dept. of Mechanical Engineering, IIT Madras, Chennai. He delivered the keynote speech on "Exploring the Scope of Nano Fluids in High Speed Machining for Cooling/Lubrication". In overview, he concentrated on the need for high speed machining and its challenges, environmental impact of cutting fluids, use of new cooling lubrication technology ie., Small quantity cooling lubrication (SQCL) and improving the performance of SQCL using nano fluids.

On the second day of the conference, Dr. S. Balasivanandha Prabhu, Associate Professor, Dept. of Mechanical Engineering, Anna University delivered the third keynote address on "Severe Plastic Deformation Processing of Materials: Texture Analysis". In his presentation, he covered

the various methods and various aspects of structural changes in metals caused by severe plastic deformation process. He particularly concentrated on repetitive corrugation and straightening techniques. Dr. Sushanta Kumar Panigrahi, Assistant Professor, Department of Mechanical Engineering, IIT Madras, Chennai delivered the fourth keynote address on "Innovative Manufacturing Routes to Improve Structural Efficiency of Magnesium Alloys". In his talk, he concentrated on basics of slip systems, crystal structures valence electron and its effect on structural efficiency before introducing magnesium alloys. Finally, he presented a novel hybrid method to fabricate TiC-TiB<sub>2</sub> reinforced magnesium matrix composites. All the lectures were very interactive. Participants were excited about the lectures and were interacting frequently. Paper presentations were conducted in four sessions. All the participants presented their research papers. Dr. I. Suresh Kannan (AP/Mech), Dr. G. Dan Sathiaraj (AP/Mech), Dr. K. Ramachandran (HOD, Physics), Dr. Jaganathan. K., (AP, Physics), Dr. V. N. Mani (Scientist-E, CMET) and Dr. T. Maridurai (Associate Professor, Velammal Engineering college) chaired the sessions. Respected Dean [E&T] and HOD/Mechanical Engineering distributed the certificates to all the participants at the end of the second day. Finally, HOD thanked everyone for attending the two days national conference and concluded that the conference was a great success.

## National Level Hands-on Workshop on Real-Time PCR and Advanced Molecular Techniques

### STAFF WRITER

SRM-DBT Platform for Advanced Life Science Technologies is a state of the art national core facility established with equal partnership by the Department of Biotechnology, Govt. of India and SRM University. This facility is actively engaged in research and scientific services in genomics, proteomics and molecular biology.

As a commitment towards development of the quality of research, the facility organized a national level workshop titled "National Level Hands-on Workshop on Real-Time PCR and Advanced Molecular Platforms" at the School of Bioengineering, SRM University. Thirty participants including academic faculties, research scholars and students from various institutions received hands-on practical training. Dr. M. Vairamani, Dean, School of Bioengineering, SRM University, inaugurated the program and briefed about the facility and also said that this workshop would provide a platform for researchers and students to learn more advanced techniques in the field of biotechnology. The workshop provided the participants with hands on training on RNA Isolation, cDNA synthesis, primer designing, Real Time PCR reaction setup and data analysis. The convener

of this event Dr. P. Sandeep Koka, Manager, SRM-DBT facility, delivered a lecture and demonstrated the scientific and technical procedures of Real Time PCR to all participants. Dr. C. D. Anand, Assistant Professor, SRM Medical College presented the clinical applications of Real Time PCR in diagnosis and treatment of various diseases. Dr. Dhamodharan Umapathy from SRM Research Institute talked about the tools to design the PCR primers which is crucial to successful amplification of target DNA. Mr. Vijayarangan, Field Application Specialist from Bio-Rad introduced the Bio-Plex 200 system an advanced instrument housed in the SRM-DBT Facility. Bio-Plex 200 system can perform up to 100 different ELISA assays in a single sample at a time. Dr. K. M. Ramkumar, Associate Professor, SRM Research Institute introduced the third generation PCR called Digital PCR, a novel method for precise and absolute quantification of gene expression. He pointed out the importance and emerging applications of digital PCR in the molecular biology research. By the end of the workshop, all the participants were technically and scientifically empowered to plan, perform and analyze Real Time PCR experiments independently which made the workshop a great success.



# Next Tech Lab from SRM University dominates Smart India Hackathon 2017

## Wins 2 Top Prizes and 1 Innovation Award at SIH 2017

### STAFF WRITER

Three teams from Next Tech Lab at SRM University's Kattankulathur campus have won Smart India Hackathon 2017 organized by Government of India's MHRD and AICTE. The hackathon is by far the biggest hackathon to be ever conducted in the world and is the starting point of Prime Minister Narendra Modi's campaign for Digital India, Start-Up India and Make in India. About 29 ministries and government departments had identified 598 problem statements, and the initial response for it came from over 7,500 teams with approximately 42,000 students. The Grand Finale of the hackathon was conducted across 26 states and saw around 10,000 selected students participating from various parts of the country.

Tesla, Minsky and Pausch Lab at Next Tech from SRM University were the teams that provided solutions to problem statements proposed by the Ministries of Steel, Tourism and Electronics & Information Technology. They competed against 50+ other teams in their assigned Ministries in three different locations - Cochin, Indore, Pune and raced to the top. Team Tesla and Pausch Lab at Next Tech emerged as Winners the competitions and bagged Rs 1 Lakh which was facilitated by Ministry of Steel's Hon'ble Union Minister

of State, Shri Vishnu Deo Sai and Ministry of Tourism's Smt. Meenakshi Sharma (IA & AS), Addl. D.G. Team Minsky bagged the Innovation Prize of Rs 10,000 from Persistent Systems at Pune.

Team Tesla's which comprised Soham Chatterjee, Archana Iyer, Rohit Saha, Fenil Doshi, Raghav Gupta and Karthik Suresh; problem statement was to create a mobile application platform that reduces power theft in the country. The team coupled the application with Artificial Intelligence to predict power theft locations and time. At the end of the 36 hour long hackathon, the team was able to develop a fully functional prototype of the user end mobile app and a highly sophisticated government sided software. The app has features that cater to the masses of India by integrating Aadhar card login and multilingual capabilities. Pausch Lab at Next Tech comprised of Naman Maheshwari, Amamath Murugen, Siddharth Suresh, Vijayalakshmi Girijala, Farhan Ahmed and Zubin Datta Choudhary; problem statement was to provide a solution for commentary in Museums around India. Their product was a mobile application which integrated Mixed Reality along with commentary in multiple regional languages, which gave their idea an edge over the others. Not only did they provide a Minimum viable product at the end, but also a

thoroughly researched profitable business plan. Minsky Lab at Next Tech team included Rohan Pooniwalla, Arjun Bahuguna, Sree Harsha Nelaturu, Aparna Krishnakumar, Tanmay Madaan and Sourav Sharan; problem statement was to create a Video Surveillance system with video analytics. The solution provided was in the form of an autonomous Deep Learning Surveillance system which used Convolutional Neural Networks to first filter out suspicious activities and then label the crime or accident and automatically informs the relevant authority without anyone needing to manage it. A hardware solution where live footage is received and analyzed on the central server from the CCTV camera all over an area. The solution provided was scalable and cheap when compared to present day methods as it can be deployed on already installed CCTV cameras without needing to change them.

The three team leaders Soham Chatterjee, Naman Maheshwari and Rohan Pooniwalla along with their team belong to a student-run lab at SRM University called Next Tech Lab. Next Tech Lab was founded by Anshuman Pandey and Adithya Ramakrishnan upon their return from USA after spending a semester at the Massachusetts Institute of Technology in February of 2016. The lab focuses on cross-disciplinary research in various fields spanning from Artificial



Participants of the event



The winning team

Intelligence, Human-Computer Interaction and Internet of Things, Computational Biology to name a few. Members of the lab have won several national level competitions earlier, presented their research work at International Conferences and published them in reputed journals. Recently Next Tech Lab started a fund raising campaign on Ketto and were able to reach 80% of their goal within two days. After the competition was

over, the teams were approached by the Ministries who were very impressed by their solutions and wanted to know how to scale these prototypes to serve the nation and its citizens. The lab plans to further continue its research in cutting edge technology for the benefit of the nation. SRM University is the only university to have won the most prizes at Smart India Hackathon 2017, thus setting a benchmark in India.

# National Science Day 2017

### STAFF WRITER

The National Science Day (NSD-2017) was organized by SRM University in association with Indian Science Congress Association (ISCA), Chennai Chapter recently at Vadapalani campus of SRM University.

Dr.K.Duraivelu, Dean (E&T), Vadapalani campus, SRM University welcomed the gathering and encouraged the young students to involve in project activities. Dr.K.Ramachandran, HOD, Department of Physics and Convenor of NSD-2017 presented the overview of the National

Science Day celebrations. Dr.C.Muthamizhchevan, Convenor of ISCA, Chennai chapter and Director (E&T), SRM University delivered the felicitation address. He emphasized the activities of ISCA in Chennai and encouraged the students for their involvement in research activities. The chief guest Prof.S.Balakumar, Director, National Centre for Nanoscience and Nanotechnology, University of Madras shared the fundamentals of science, the development of nanoscience and nanotechnology in ancient India, innovative Indian and International scientists. He encouraged the students

to focus on the fabrication of augmenting devices and prosthesis for the specially abled persons with the latest technology of nanocomposites and biomaterials for the reduction in the weight of the device with lifelong usage. Dr.K.Jagannathan proposed the vote of thanks. More than 500 students and ISCA members from premier institutions and SRM University participated in the NSD 2017 celebrations and contributed their basic research contribution through the project exhibition and poster presentation. The technical session included 48 science project exhibitions, 50 poster presentations, 18



(L-R) Prof.S.Balakumar, Director, National Centre For Nanoscience & Nanotechnology, University of Madras; Dr.K.Ramachandran, Hod, Physics; Dr.C.Muthamizhchevan, Director (Engineering & Technology), SRM University; Dr.K.Duraivelu, Dean (Engineering & Technology), Vadapalani Campus, SRM University).

speech competitions and 50 quiz participations. During the valedictory function, the HoDs of ECE, Mechanical, CSE, Physics and CDC gave

away the prizes to the winners of various competitions. NSD 2017 ended with the colourful cultural events conducted by the SRM students.

# Nakshatra 2k17

**SOURAV KARMAKAR  
AND SAPTARSHI SAIKIA**

Nakshatra 2017 its a cultural fest conducted by the Faculty of Science and Humanities, SRM University. The two day event kicked off at T.P. Ganesan Auditorium. It was inaugurated by Chancellor Mr.T.R.Pachamuthu, along with actor Mr.Ponvannan and actress Mrs. Saranya Ponvannan who also attended the event. Nakshatra 2k17 had around six hundred to seven hundred participants and performers, with students coming in from various streams of the University, there was also major participation from the students of Vadapalani campus. Three thousand excited people turned up to witness the inauguration. This year was the grand second edition of Nakshatra. The event

was conducted and managed by the Faculty of Science and Humanities, under the staff coordinators Mr. Prabhakaran and Dr. Vennila. Nakshatra also attracted several commercial outlets 'Hot Spice' the food partner and 'Pridhi Boutique' were the major sponsors. 'Treasure Hunt' in association with 'Filmi Work' and the students from Visual Communication were the central figures behind the fest. Other events included a Fashion Show, Inter Department competitions and several other creative contests. The student coordinator M. Kuppan who was glad to organise the event quoted, This was the 70th event I have organised! It was a very good experience, this is my final year in SRM and I was happy to be a part of Nakshatra." Nakshatra 2017 was one of the landmark events of the semester.



*Felicitatation of Chief Guest*



*Fashion Show*



*The winners (Journalism & Mass Communication with the trophy)*



*Dance*

## A technical talk on "Solar PV Power and its prospects"

**STAFF WRITER**

Mr.Saswat Das, Director of Sunmeister Energy PVT Ltd, was invited by the Department of Mechanical Engineering, to give a technical talk on "Solar PV Power and its Prospects" recently. Mr.Saswat, started with the discussions on energy requirements, and their demands in India.



*Dr. Saswat Das, Director, Sunmeister Energy Pvt. Ltd. during his talk on Solar PV Power and its prospects*

He listed the various methods such as grid connected solar system and hybrid solar system and also explained about the different types of panels such as Polycrystalline, Mono crystalline and thin film panel. Thin-film solar cells which are commercially used in several technologies, including cadmium telluride (CdTe), copper indium gallium selenide (CIGS), and amorphous thin-film silicon (a-Si, TF-Si) were also discussed by him. He gave the insights about the KAMUTHI Project in Tamil Nadu, which is the largest single setup solar power plant spread over an area of 10 sq. km. with production capacity of about 940 MW. The challenges ahead of the solar PV industries in India were well defined by him. He also gave insights, into the major problems in solar power plants and stated the reasons for accidents due to batteries, substandard quality of wiring and loose contacts which results in short circuits. Thus he concluded his talk with emphasis on how every household should move towards rooftop solar power installations to become self sustainable and reduce load on the grid.

## 4ze Racing

**STAFF REPORTER**

4ze Racing is the Official Formula Student Electric Racing team of SRM University. The team participated in Formula Green 2017, a National level Formula Electric competition that was held at Kari Motor Speedway in Coimbatore. The Competition was divided into Static and Dynamic events. Static events include Design Evaluation, Cost Analysis and Business Plan. Dynamic Events include Acceleration, Skidpad, Autocross and Endurance. Nine teams participated in the event, participating team were from IIT Roorkee, VIT Vellore, VIT Chennai, Sri Sairam College of Engineering, PSG Institute of Technology and Applied

Research, SSM Institute of Engineering and Technology, KIIT, SD Institute of Technology.

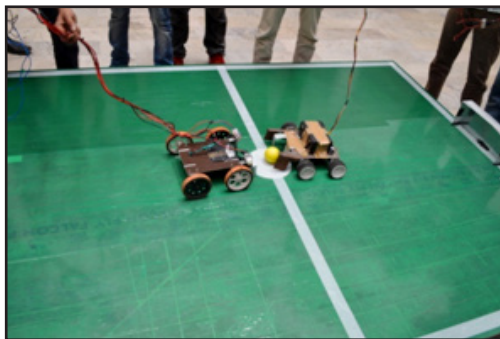
Day 1 started with DisAsm (Disassembly and Assembly of vehicle in less than 60 minutes), 4ze racing was declared as the fastest team to complete the event in 58.47 minutes. The next event was Business Plan presentation, here the team has to present a market strategy to mass produce the car and pitch their potential to investors. The team secured 3rd position in the event. Day 2 was full of ups and downs. It started with the Technical Inspection of the car. Here again 4ze Racing was the first to clear the Inspection and get a green signal to run the car on the track. Following the Technical Inspection were

the Dynamic Events, which were Acceleration, Skidpad and Autocross. The team completed its Acceleration run of 30 meters in 4.5 seconds, Skidpad in 21.84 seconds and Autocross in 33.63 seconds. The team secured 1st position in all the events. Day 3 was exponentially challenging. All the eligible teams were expected to complete a 28km long Endurance run. This event is considered the toughest even Internationally, as all aspects of the car are tested to their limit. Team Smokin Axle's and 4ze Racing were the only two teams who were able of complete the course of endurance, which in itself is commendable. 4ze Racing would like to thank and congratulate all the teams for their participation and contribution to make the event a success. 4ze Racing is now the defending Winner and Champion of Formula Green 2017 organized by ISNEE.

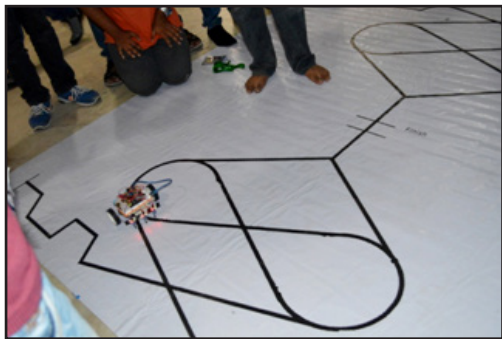




Release of RevoluXion magazine



Robo Soccer



Line Follower



Pick and Place

## Robotics Techfest – XION'17

### STAFF WRITER

The robotics club of SRM university Vadapalani organized a two day workshop National level TechFest – XION'17 recently. The TechFest was inaugurated by Mr. Ramkrishna Patra, Head Engineering Division, Nokia-IN and the guest of Honour Mr.P.Kartikeyan, Manager, Production and Automation, Nokia, IN. Dean Dr.K.Duarivelu addressed the gathering followed by a key note speech on Production and Automation by the chief guest. The VI issue of the magazine of the Robotics

club – RevoluXion was released by the chief guest, guest of honor, Dean and HODs.

Students from different colleges participated in this two day event that included a workshop – IoT controlled Cloud Robot and Five different Robotic competitions – Robo War, Robo Soccer, Pick and Place, Line Follower and Robo from Junk. IoT based cloud Robot was attended by 50 students from different colleges, they had a holistic view of Arduino, linking WiFi module with Robot and controlling Robot with webpage. Robo War

tested the competence of one robot over the other. Pick and place bots were tested for their ability to carry items and cross obstacles to place the items in their destination. Robo soccer was football of Bots and line follower bots were tested for their ability to travel along a path. With three rounds in each event, many teams were eliminated and winners were chosen by judges. This TechFest ended with the a valedictory function. Prizes to the winners were given by the HODs of all three departments. Few glimpses of the event are.

## AARUUSH'17

## Earth Hour Celebrations

### STAFF WRITER

Saving the Earth and conserving its diversity is a difficult task. And one person cannot make this change alone. Gratifying their reason for existence and blissful living, the students of SRM University held Earth Day in collaboration with World

Wildlife Fund. World Wildlife Fund (WWF) is an NGO which aims to conserve nature and reduce the most pressing threats to the diversity of life on Earth. The students paid tribute to Mother Earth by lighting more than 1500 candles spread over the Boys and Girls Hostels inside the campus. Earth hour was

observed between 8:30 p.m. and 9:30 p.m. Posters were made and the message was spread. The volunteers began their work well in advance making the outline of the symbols. These symbols were then filled in with colored powder to add the glamour and attractiveness. The candles were arranged in the form of the WWF Logo along with the logo of Aaruush. Exhilarating, foot-tapping music was played as everyone buzzed with anticipation. The lights were switched off throughout the hostel campus located inside the University at 8:30 p.m. Students ardently participated in the act of conserving energy. With over 200 excited volunteers and participants, the ground seemed to reflect the starry night sky.

At 9:30 PM, the lights were switched back on and Earth Day '17 ended successfully.



## The Iet Iot Club

### AATISH NAIR

The Institution of Engineering and Technology (IET) SRM student chapter introduced a brand new Internet Of Things (IOT) club in our university. The club was inaugurated by Mr.Anirudh Kannal, CEO and Founder of HED-X; Dr. C. Muthamizchelvan, Director Engineering & Technology; Dr. B. Amutha, Head of Department Computer Science and Dr. S.S. Sridhar, Chairman of IET CLN. The IET IOT Club will mainly focus on the research and technology in the field of IOT and how existing problems can be solved with new and innovative IOT solutions.

The event started with the welcome address by Vice Chairman of The IET student chapter. Faculty Coordinator Mrs. Jackulin Mahariba delivered the guest address, highlighting

the importance of IOT in day-to-day life. Director Dr. C. Muthamizchelvan also addressed the students.

Along with the inauguration of the new club, a technical talk on IOT was organized where Mr.Anirudh Kannal, CEO and Founder of HED-X gave his lecture on IOT & Xcelerator platform. His technical talk included the real time examples on how application of IOT made life simpler and easier. This was followed by questions / answer session which made the session interactive and spellbinding.

The inauguration of the new IOT club was a huge success and it ended on a high note, promising better opportunities for the students of our university. The event wouldn't have been possible without the relentless support from the core team of the IET SRM student chapter.



## Opportunities and Career Options in Securities Markets

### STAFF WRITER

SRM B School in association with Madras Management Association organized a Guest Lecture on "Opportunities and Career Options in Securities Market" with talk by Mr.Nitin Tike, Sr.Vice President, NISM. The programme commenced with the Welcome Address by Dr.S.Kesavan, HoD, SRM B School. The session started off with basic introduction of the securities market which gave a clear idea about the three different sectors of economy. The speaker also explained the need for investing in the various sectors which will lead to the economic growth. The innumerable job opportunities in the sector were clearly highlighted. The programme was organized to give insights on the various opportunities available in financial markets. Group Captain Mr.Venkatraman, GM, MMA and Mr.Pavan, NISM, Chennai Chapter graced the occasion with their presence. The session was informative and provided information on all the areas in the securities market.



Mr.Nitin Tike, Sr.Vice President, NISM delivering Lecture

SRM University's NSS Wing is involved in many events all around the year. Recently SRM's NSS volunteers distributed clothes with Mr. Kurugan, Inspector of Police, being the Chief Guest. Pictures of the event.



Ms. Manjula Rangarajan, Financial Advisor and Chief Accounts Officer Southern Railways Chennai, addressing girl students of SRM university, under SAKSHAM initiative of SRM University, Vadapalani campus on working women issues and challenges.

## Work Life Balance- Issues and Challenges of Working Women

### STAFF WRITER

A guest lecture on Work Life Balance- Issues and Challenges of Working Women" was organised under the aegis of the UGC SAKSHAM Scheme exclusively for women faculty and girl students of the SRM University Vadapalani campus. The lecture was delivered by Ms. Manjula Rangarajan, Financial Advisor and Chief Accounts Officer- Southern Railways.

The UGC nodal teacher Dr. C. Praseeda extended a warm

welcome to the gathering and spoke on the SAKSHAM Scheme. The guest was felicitated with flowers and a memento by Ms. Poongudi, faculty CSE Dept and Dr. Praseeda felicitated the honourable speaker with a memento as a token of gratitude.

In her lecture Ms. Manjula Rangarajan discussed how the women were in the past, present and will be in the future and how have they evolved themselves over time. She also introduced the participants to many exclusive examples. She

encouraged the young girls to strive for equality and all must work in an organised sector which will create an identity for young girls and which will also increase our country's economy as well. She also shared her own experiences from her life which was inspiring. All were motivated by her inspiring talk. The occasion came to an end with a question and answer session and finally vote of thanks was proposed by Padma Priya, MBA 1st year.

## TEDx SRM Kattankulathur

### STAFF WRITER

The department of Electronics and Communication Engineering hosted the third edition of TEDx SRM Kattankulathur in the TP Ganeshan Auditorium, on 25th of March, 2017. Seven speakers, pioneers in their own fields, were invited to share their thoughts on the theme of "change".

The event began with a brief introduction and a Tamil invocation. The first speaker for the day was Mr. Mudit Yadav who spoke about how change acts as a disruption to the natural order of things. Mr. Yadav, a Chartered Accountant and a passionate Motivational Speaker, also went on to talk

about how vital it was to move in the direction one fears the most in order to accept change in its totality. "Fear is the compass to success", he said. Following this, Mr. Vipul Aggarwal explained that the true benefits of change can be harvested only by exposing all sections of the society to it. Other important statements regarding change were made by Dr. R Vasudevan, recognized for his contributions in the field of environmental science, when he said that it was important to change one's attitude towards the environment in order to improve its condition.

Ms. Cindy Mathew was the next speaker for the event. As the co-founder of Story Time,

an organization that encourages children to read, supplying over 13000 books throughout the country, Ms. Mathew talked about how the venture started and grew over the years. After a one hour lunch break and a delightful performance by the band, ATTVA, Indian author and Cyber Security Expert, Trishneet Arora gave a thought-provoking speech on the value of life.

Mr. Mohammed Zeeshan, alumnus of SRM University and founder of The Climber, interacted with the audience by narrating his personal experience and struggles in his journey as an entrepreneur.

The final talk, given by Dr.

Vikram Shetty, was about his experience with his patients. He stated that the patients' perspective towards doctors can be reshaped by implementing changes in the present medical system. "Change is good. Question it, don't resist it", he said. The audience was

given an opportunity to interact with the speakers through a 20 minute question and answer session.

The event ended with a vote of thanks to the organizers, faculty and the hotel and management staff, by Mr. Amber Goel.



Group picture of the guests, organizers and the management team of TEDx SRM Kattankulathur



*The Chancellor and Registrar at the event*

## Honouring SRM Alumni

### STAFF WRITER

SRM University recently conducted the Alumni Day. The meeting was presided over by the Chancellor Dr. Paarivendhar.

Four alumni were presented the Notable Commendation Awards in recognition of their achievements:

Dr. Emerson Raja, (1989 CSE) Faculty at Multimedia University, Malaysia;

Mr. Jerry Meshach, (2004 BArch) leading architect in Chennai;

Dr. Mithun Kuniyil Ajith Singh (2008 Biomedical) Biomedical researcher based in The Netherlands; and

Mr. Kamlesh Jain, (2008 BPT)

Physiotherapist for the Kolkata Knight Rider's team and Duleep and Deodhar trophies.

The cover of the book Digital First co-written by Mr. AMS Pandian (2009 Bio info), an SRM alumnus, was also released by the Chancellor.

In an interactive session, the Chancellor replied to various queries by alumni and also exhorted them to get involved more with the University in all ways possible. Open House exhibits were arranged by various departments throughout the University for the Alumni to highlight the achievements of the students and faculty.

The meeting was addressed by the Vice Chancellor, Pro Vice Chancellor and Registrar.

## CTS awards best students and faculty

### STAFF WRITER

Felicitations'17 is an event organized by the Career Centre and Faculty of Science and Humanities in association with Cognizant Technology Solutions to award the Best Outgoing Student and Best Faculty.

Ms. Visalini, -III rd year BCA student bagged the Best Outgoing Student award from CTS. Ms. Visalini is a multitasking student who always excelled in her academics and obtained Gold medals 4 times for Scoring 'S' grade in Mathematics. And the Best Faculty Award went to Ms. D. Sankari-Head, Department of Biotechnology. Cognizant has extended a new category of awards for the Best Project

which was bagged by Mr. Dilkush Jain -III rd Year BCA.

Also, Mr. Ali Akbar & Mr. Karan from final year BCA department were felicitated with a certificate and Memento by Cognizant for clearing a certification test conducted by CTS where some 500 colleges participated in the event and 22 students in all cleared the test.

Present on the occasion were Mr. Maheshwaran Senior Director, Health care-Cognizant Technology Solutions as Chief Guest; Dr. Prabir K. Bagchi - Vice Chancellor SRM University, Dr. N. Sethuraman-Registrar, SRM University, Dr. R. Balasubramanian- Director Faculty of Science and Humanities,

Dr. Sriram S. Padmanaban, - Director Career Centre. Cognizant's association with SRM has had a huge impact on the institution's progressive growth. Cognizant is one of the major recruiter that introduces the talent pool from SRM to the corporate world. The company has different approach of recognizing both academic and non academic performers and awarding them with what they deserve. They have established themselves in such a way that the talent from the Arts and Science courses can develop their skills and be a part of corporate world. About 100 students from Science and Humanities streams have got their offers from Cognizant in this academic year.



*The Vice-Chancellor, Registrar, Director of Faculty of Science and Humanities and Career Centre with the awardees.*



## Nuclear Power is our Gateway to an affluent future

### STAFF WRITER

India seems at nuclear skill and nuclear materials principally as a resource for meeting a fraction of its necessities for electricity. It considers nuclear power as secure, consistent, affordable and environmental friendly and is occupied in emerging nuclear technologies for exploitation. Incessant progression of the framework for governance of nuclear power including that for nuclear safety has been given indistinguishable significance. Nuclear industry and research centers in India have internalized security practices in their day-to-day working and have created a strong security culture in their respective organizations. In tune with the security requirements as

perceived by India, the nuclear security architecture in the country has been strengthened and India has also participated in strengthening security architecture at the global level. Considering the above assertion, the Workshop on Indian Nuclear Programme was organized by Department of Physics, SRM University, Ramapuram campus on 25th March 2017 in association with Department of Atomic Energy, Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam.

Dr. K. C. Udaiyakumar, Vice Principal (Academic), SRM University presided over the inaugural function. Dr. L. Sudha, Professor & Head, Department of Physics and Convener of

the workshop welcomed the imposing gathering.

The Chief Guest Dr. R. Baskaran, Head, Radiological Safety Division, IGCAR, Kalpakkam delivering the inaugural address emphasized the need for Nuclear Energy for India and recollected the story of development of nuclear energy-right from the initial days of various inventions that lead to the first demonstration of nuclear fission in "Chicago Pile reactor" by none other than Enrico Fermi. He also touched upon the various safety measures adopted by Department of Atomic Energy in harnessing nuclear power

for India. Dr. P. Parameswaran, Scientist-G & Head, XRD and Surface Engineering Metallurgy and Materials Group, IGCAR delivered a scintillating lecture on the "Development of Materials for Indian Nuclear Programme".

Dr. S. Balasundar, Scientist, and Mr. B. Arun, RSD, IGCAR, Kalpakkam delivered awareness lectures and demonstration on 'Radiation and its application' wherein there was one-to-one interaction by the students with the scientists was observed thus helping them to understand the various detectors and their applications and uses.

During the afternoon session, Dr. P. Parameswaran, enthused the budding engineers of SRM with a "Quiz on Nuclear Energy" in which not only the selected six teams of students of First Year B.Tech participated in a close competition but also the audience with all raptness for their turn to answer the bouncing questions. The prizes and certificates for the winners and runners were given away by Dr. P. Parameswaran during the valedictory function. It is our sincere observation that the workshop (WIN-2017) immensely facilitated the academic community of young engineers to appreciate the excellence offered by the atomic energy for the society which is not limited only to producing electrical energy but have several applications for mankind through the various radioisotopes artificially produced by the nuclear reactors. Finally, Mr. M. Saravanan, Asst. Prof. (Sr.G), Coordinator of the workshop proposed the vote of thanks.



*Dr. P. Parameswaran, Scientist-G & Head, XRD and Surface Engineering Metallurgy and Materials Group, IGCAR enthused the budding engineers of SRM with a "Quiz on Nuclear Energy".*

## Get in touch with new-fangled Hierarchically Structured Materials: Dr. D. K. Aswal

### STAFF WRITER

Countless natural and man-made materials reveal configuration and structure on more than one length scale; in some materials, the structural elements themselves have structure. This structural hierarchy can play a foremost component in establishing the immensity material chattels. Understanding the effects of hierarchical structure can steer the amalgamation of novel materials with physical possessions which are adapted for definite applications. A tremendously great potency to weight ratio is realistic. In recent existence, Hierarchical lattices have been made via 3D printing, rapid prototyping, and related methods.

“Men build too many walls and not enough bridges”- Sir Isaac Newton.

With this thought Department of Physics, SRM University, Ramapuram campus organised the 5th National Conference on Hierarchically Structured Materials

(NCHSM 2017) on March 31st & April 1st 2017. The conference was sponsored by DST-SERB & CSIR, New Delhi.



Lighting of Kuthuvilakku by the Chief Guest Dr. D. K. Aswal, Director, CSIR-National Physical Laboratory, New Delhi & Dr. V. Subbiah Bharathi, Dean (E&T), SRM University, Ramapuram

Dr. V. Subbiah Bharathi, Dean (E&T), SRM University presided over the inaugural function and he outlined the significance of gathering researchers and faculties to work for the progress of science and technology. He also stated the role of science serving industrial purposes, and also become decisive for resolve the problems in the physical sciences. Dr. D. K. Aswal, Director, CSIR-National Physical Laboratory, New Delhi graced the conference as Chief Guest. He delivered inaugural address and specified the scope of Hierarchically Structured Materials, how it involves

in integration of science and technology and released the conference proceedings. He also delivered a plenary talk on “Perspective on Science, Technology, Innovation and Entrepreneurship Policy”. He talked about the progression of this meticulous material and potential uses of it and how to make India economical by using this material.

Over 150 faculty members, Researcher and scholars from various educational institutions along with various Research & Development laboratories across the country attended the

conference and presented their research findings.

Dr. L. Sudha, Professor & Head of the Department of Physics, Convener of NCHSM 2017 welcomed the august gathering and presented the overview of the conference. Eminent scientists from prestigious institutions presented plenary and invited talks on a range of topics.

Renowned professionals like Dr. N. VIJAYAN, Senior Scientist, Crystal Growth and X-Ray Analysis Section, CSIR-National Physical Laboratory, New Delhi, Dr. P. Thangadurai, Centre for Nano Sciences & Technology, Madanjeet School of Green Energy Technologies, Pondicherry University, Pondicherry, Dr. R. Jayavel, Director, Centre for Research Centre for Nanoscience & Technology, Anna University, Chennai, Dr. V. ivasubramaniam, Scientific Officer Condensed Matter Physics Division - Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, Dr. U. Madhusoodanan, Senior Scientist, Radiological Safety & Environmental Group, Indira Gandhi Centre for Atomic Research, Kalpakkam and Dr. K. Gunasekaran, Centre of Advanced Study in Crystallography & Biophysics, University of Madras Guindy Campus, Chennai delivered their research which enthused the young researcher for technology transfer.

Research Scholars and Scientists from leading Universities, Colleges and R&D laboratories contributed and presented their research findings on topics such as Nanomaterials, Crystal Growth and Characterisation, Magnetic and Semiconducting Materials, Materials Characterization, Electronic Structure of Materials, Thin films. Based on the most innovative and challenging areas of conference, the best oral and poster presentations were awarded. This was a big boost for the budding scientists to carry on with their interest on research.

The Dr. K. Gunasekaran, Centre of Advanced Study in Crystallography & Biophysics, University of Madras Guindy Campus, Chennai encouraged the potential research contenders to achieve speculate in their field whilst delivering the final valedictory address. In the valedictory function, Dr. K.C. Udaiyakumar, Vice Principal (Academic), SRM University, Ramapuram campus felicitated the gathering and addressed the significance of research work in the field of hierarchically structured materials and mentioned that the conference which was conducted would enormously facilitate the academic community to allocate their knowledge for the betterment of society.

## Find ways to develop our village... Registrar @ NSS camp

### STAFF WRITER

National Service Scheme (NSS) Cell SRM University organized a One Week Special Camp at Kavanur Village, Kanchipuram district, Tamilnadu. Kavanur village has been adopted by the SRM University with the intention of developing villages. Volunteers of NSS Cell SRM University regularly organize different activities in and around the campus.

The objective of this camp was to begin an interface with community, rapport building with community members and developing understanding of the village keeping in mind the rationale of village adoption -- develop long term institutional relation with the community and contribution to the upliftment of people.

Dr. T. Rajasekaran, Programme Coordinator visited the village a week before the inauguration

of the camp and important stakeholders including President and Headmistress Kavanur village, ward members and other influential members of the community. He discussed the plan of organizing special camp at the village. The plan and its utility was appreciated by villagers and they agreed for the camp to be organized by the NSS Cell with the plan for the Special Camp between 3rd April 2017 and 9th April, 2017.

Almost 100 volunteers turned up willing to participate in the camp. Out of which 65 volunteers were selected for camp. Programme Officer, NSS Cell formed group in such a way that one group consisted of volunteers from different department, different courses and different languages. Each group consisted of both male and female volunteers.

The Camp began with the

inaugural function at Gram Panchayat School at Kavanur village. The programme was presided by Dr. N. Sethuraman, Registrar, SRM University. The village president along with his team of ward members was present. The presence of Dr. N. Sethuraman, made the programme very effective, delightful and grand as his appealing speech made a deep, thoughtful and objective impression on all the stakeholders including volunteers and villagers. He started with the point that India is a country of villages and we all should honestly look for finding ways to develop our villages and in return the country would automatically prosper.

Features of the camp included educating school kids and the public on literacy, environmental effects, conservation of energy, etc., In addition to donating computers, provision of drinking water facility from a common

water line, tree plantation of 100 saplings, general, dental and eye health check up for

kids and public, conducting different games on different themes, just to mention a few.



Donation of computers to the school by The Registrar, SRM University



Group photo on the occasion of inauguration of special camp held at Kavanur village



Pro Vice Chancellor, Dr. T.P. Ganesan receiving the certificate from Mr. Vivek Raja of India Book of Records.

## SRM University Enters India Book of Records

**SOURAV KARMAKAR**

SRM University entered the India Book of Records recently for the largest dual mosaic with 5940 Rubik's cubes. The mosaic, of Taj Mahal and Kalpana Chawla was made in three hours, in the presence of Mr. Vivek Raja of India Book of Records. The event was felicitated by Dr. T.P. Ganesan, Pro Vice Chancellor of the University. During the record attempt, Dr. S. Ponnusamy; Col. (Dr) C.P. Ramchandani, Director of Students & Campus Life and Mr. Jawahar Philmis, Asst. Director Student & Campus Life, were also present. The

record attempt team, a group of thirty five students, was headed by Abhijeet Ghodgaonkar, final year, EEE student. "This mosaic was a good team building experience, many people came together, even beginners who know how to solve one layer were a part of the event," said Abhijeet Ghodgaonkar, 5th in the world in 5x5 Blindfold cubing and the Convenor of SRM Cube Club.

SRM University along with Word Cubing Association also organized SRM Cube Open on 26th of March, the second official speed-cubing competition in SRM. More than two hundred

participants from various schools and colleges were part of SRM Cube Open. Mr. Adithya Ma, a student from Madras Institute of Technology broke the national record in 3x3 Feet during the competition. The Cube Club also attempted to break the Limca Book of Record for most number of Pyraminx solved by a team of five members in an hour. Pyraminx is a regular tetrahedron puzzle in the style of Rubik's cube. The team of five were able to complete 1053 solves in an hour and are now awaiting approval from the Limca Book of Records.

## Energy Resources and Energy Conservation

**STAFF WRITER**

A technical talk on "Energy Resources and Energy Conservation" was organized by the Energy Club of Department of Mechanical Engineering, SRM University, Vadapalani Campus recently. Er. G. Ramadoss, Assistant Electrical Engineer, DSM, TANGEDCO, Govt. of Tamilnadu was the resource person for the event. He gave a very good insight about various forms of renewable and sustainable energy resources and highlighted the importance of renewable energy under the present scenario of fast depletion of fossil fuels and its consequences which include Greenhouse effect, Global warming, Ozone layer Depletion, Acid rain formation, radiation and its health hazards. Also, he emphasized the need for Energy Conservation and Energy Efficiency concept in our day to day life, in order to save money through energy savings and there by protecting the environment.

The chances of unavailability of fossil fuel resources for the future generation and the simple measures to conserve

energy for the future were discussed. He stressed on the point that every citizen of India should make their contribution to bring a better future and suggested the ways of saving energy such as using energy efficient (5 star rated) lighting, air conditioners, refrigerators, fans, water heaters, replacing incandescent bulbs with CFLs and LEDs and use of natural light sources in the day time, avoid keeping Air Conditioner stabilizer in 'ON' when AC is not in use and use AC in 'low cool' or 'medium cool' mode instead of 'high cool' and place the outdoor unit them about 6 inches away from the wall for ventilation on the rear side.

He concluded by telling that Energy is in short supply in India and expensive especially for industry. Management of energy resource is very important to save natural resources. With use of more energy efficient technologies, many businesses could cut their energy consumption by up to 20% and it is important to provide education regarding energy conservation to general mass.

## Sports...



KL Trophy '17 SRM University wins Overall Championship in South India Level Inter Collegiate Tournament



SRM Won Gold Medal in Tamil Nadu State Inter University Kabaddi Men's Tournament



SRM Won Gold Medal in Tamil Nadu Inter University Table Tennis Men's Tournament



SRM University Cricket Men Team Won Gold Medal at VIT university, Chennai.