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The official newsletter of NIT Tiruchirappalli



INSTITUTE NEWS

STUDENTS' ACTIVITIES

FESTIVALS

ALUMNI

DIRECTOR'S MESSAGE

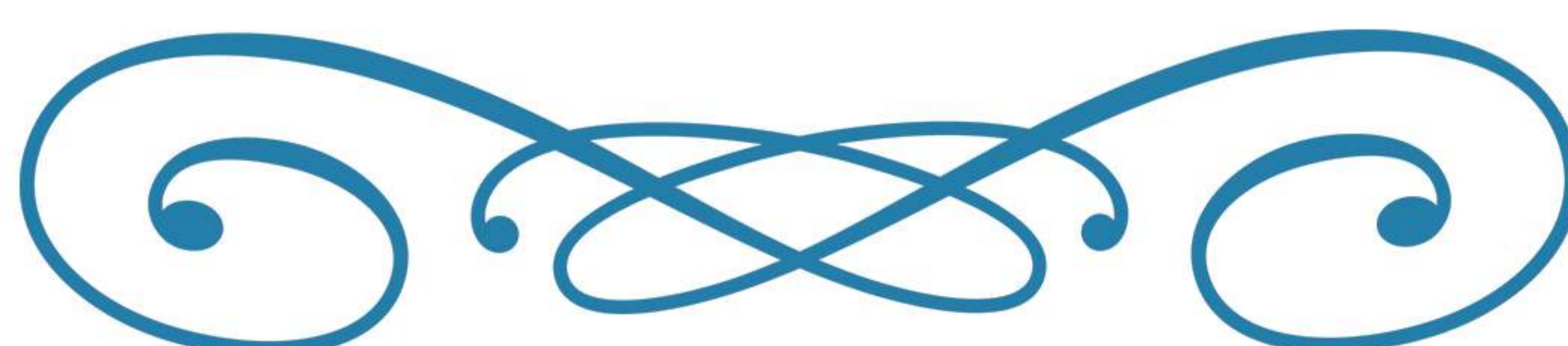


Financing of centrally funded Higher Education Institutions, is undergoing a major change and we are gearing up to face the challenges. The Strategic Plan 2019-24 unveiled in October 2018 has many elements for sustainable development of the Institute, with avenues for increasing the internal revenue generation. As part of the Strategic Plan, the first Centre of Excellence was inaugurated by the Honorable Minister of Human Resource Development, Shri Prakash Javedekar, focusing on Advanced Manufacturing with 90 % support by Siemens. This Centre will be a model with research, consultancy and skill development as the goals, with focus on the manufacturing Industries and tier II and III Institutions around the Institute. I wish the centre all success and hope to start more such centres in future to help the Institute move towards self-sustainability.

The Institute is keen on enlarging the scope of the Innovation and Entrepreneurship, and many initiatives are underway to encourage the innovation culture. It is heartening that the team from NIT, Trichy won the second prize in Indo-Singapore Hackathon 2018. I encourage the faculty and students to take up societal problems and come up with solutions which can be incubated and supported by the Institute.

Wishing all a happy and blessed New Year 2019!

Prof Mini Shaji Thomas
Director



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HRD MINISTER INAUGURATES SIEMENS CENTRE OF EXCELLENCE AT NIT-T



The Union Minister for HRD, Shri. Prakash Javadekar inaugurated the 190 Crore Centre of Dynamic Excellence in Manufacturing, in partnership with Siemens Industry Software, one of the first of its kind in Centrally funded technical Institutes. The grand ceremony also saw the release of the Institute's Five Year Strategic Plan (2019-2024) along with the launch of the official website of Sangam, the Hardware Hackathon of Pragyan 2019 - the flagship techno-managerial fest of NIT Tiruchirappalli. The Hon'ble HRD Minister urged the young minds of New India to work on Industry and Society-centric issues. He added that there is a new generation of school children working with 2500 Atal Tinkering Labs in the areas of Artificial Intelligence, Robotics, 3D printing and IoT. Launching the Hardware Hackathon in NIT Tiruchirappalli, he also highlighted the prototyping and product development as a positive outcome of the Smart India Hackathon, which has fostered innovation among young minds and resulted in real solutions to societal problems.

Dr Mini Shaji Thomas, Director, NIT, Tiruchirappalli in her Welcome address, enumerated the NIT-T's dreams that have been achieved in the recent past and also enunciated the achievement of future dreams through the implementation of five-year strategic plan of NIT-T (2019-24).

Shri. Matthew Thomas, Country Sales Leader of Siemens Software, addressed the gathering about the importance of bridging the gap between industries and academic institutions. He spoke on the future – Industry 4.0, with emphasis on ideation and digitalisation. He announced his pleasure in offering rupees 12 Lakhs for designing and evaluating Robotics for the CoE.



SIEMENS CENTRE OF EXCELLENCE IN MANUFACTURING

Siemens Centre of Excellence in Manufacturing established at National Institute of Technology Tiruchirappalli provides “Skill Excellence” for students, practicing professionals and Industries. The primary focus of the Centre is to create a robust technical education eco-system through its experience in industrial products and services. This Centre is intended to bridge the gap between industry requirements and technical education, and provides solution that makes technical institutes be more aligned with industry needs and make engineering graduate students industry ready. The various learning tracks designed by Siemens and to be certified jointly by Siemens and NIT-Tiruchirapalli can be enrolled by engineering, polytechnic and ITI students. The Centre of Excellence is managed by highly skilled team of NIT Tiruchirapalli faculty, Siemens Certified Instructors and Industrial experts. Most of the Labs are supported by Siemens Product Life Cycle Management Software.

Design and Validation Lab and Test and Optimization Lab primarily use NX CAD, NX CAM and NX CAE for complete modelling, analysis and validation of any design. The Advanced Manufacturing Lab supported by Tecnomatix helps to design shop floor and optimize the product flow.



The Robotics Lab has pick and place robot, MIG welding robot and resistance spot welding robot.

The CNC Controller Lab enables students to understand the concept of CNC Programming and work real Sinumerik 808D controller for Turning and Milling applications. The students will also work on Sinumerik 840 DSL rack which supports programming up to 31 Axis. The CNC Machine Lab consists of CNC Lathe and 3-Axis Vertical Machining Centre. The Process Instrumentation Lab enables students to work on Advance Automation using Distributed Control Systems (DCS) .

In Automation Lab students learn how to Program Industrial PLCs, work with Industrial Human Machine Interface (HMI), Industrial SCADA (Supervisory Control & Distributed Acquisition) and PLC networking using profibus and profinet.

The Mechatronic lab allow students to work on a mini factory like setup on Pneumatics & Hydraulics, Sensors, Communication Protocol, PLC programming, PLC Networking.

In electrical and energy saving lab, students are introduced to the usage of AC/DC drivers from the industries on experimental set-up for power system switchgears and energy saving studies.



NIT TIRUCHIRAPPALLI FABRICATES ELECTRIC BOARDS TOWARDS KERALA FLOOD RELIEF OPERATIONS AND DONATION TO CMDRF

NIT Tiruchirappalli responded to a call from the Institute of Electrical and Electronics Engineers (IEEE) Kerala Section, by fabricating temporary electric distribution boards to restore power to homes still reeling under the devastating floods. The Faculty and the students, with support from the Alumni, went on overdrive to deliver the requisitioned numbers in time. The catastrophe that struck God's Own Country ravaged the state leaving many dead and much lost. In the first phase of rehabilitation, one of the major problems identified was the difficulties in restoring power supply.



The IEEE Kerala Section launched a massive drive for Electricity Reconnection under the Jala Jyothi Programme, to restore power using temporary distribution boards. The project includes design, mass production and installation of a low-cost electric distribution board as a minimum power outlet. This would allow the affected, in relief camps, to return home for cleaning and sanitization. The IEEE Kerala section's indigenous design of temporary distribution boards was approved by the State Electricity Board and it was decided to distribute 500 such boards to the worst affected.

NIT Tiruchirappalli Director, Dr. Mini Shaji Thomas, put together a team of faculty, staff, students and alumni to accomplish the task of fabrication based on the approved design. Sajas Electricals, founded by Jayaram Sadasivam, an alumnus allowed his facility for making the boards. The students of NIT Tiruchirappalli contributed Rs. 5,32,000 towards this noble cause. The Alumni Association of NIT Tiruchirappalli has also promised an additional amount of Rs. 2,00,000 for the fabrication of the boards. Besides mobilizing funds, the student volunteers also set about assembling the components. The IEEE Indian Office Director, Mr. Harish Mysore, Mr. Amarnath Raja of the Kerala Section and Prof. Bakthavatsalam of NIT Tiruchirappalli coordinated the project.



The first fabricated board was handed over to the IEEE Kerala Section Chair, Prof. Sameer by the Director, Dr. Mini Shaji Thomas, during the IEEE Women in Engineering International Leadership Summit, on 7th September 2018, where she was the Keynote speaker. The fabrication and the assembling of the 500 boards was completed at Sajas Electricals, Tiruchirappalli and dispatched to Kerala.

Earlier, a cheque of Rs. 10,09,514, was handed to the District Collector, Ernakulam, Mr. M. Y Safirullah by Dr. Mini Shaji Thomas. The amount was NIT Tiruchirappalli's contribution to the Chief Minister's Distress Relief Fund.

NIT, TIRUCHIRAPPALLI FINDS A PLACE IN SWACHH CAMPUS RANKING 2018

The award presentation ceremony of the Swachh Campus Ranking 2018 of Higher Educational Institutions was held in New Delhi. Shri Prakash Javadekar gave away the awards. National Institute of Technology, Tiruchirappalli was among the recipients of the award. NIT, Tiruchirappalli is ranked third among Centrally funded Technical Institutions/Universities and the only NIT among the thirty one NITs in the country to find a place among the awardees. The Director Prof. Mini Shaji Thomas received the award along with Prof. Samson Mathew, Dean(Students Welfare) and Shri Shivam Sharma, the President of the Student Union.



INAUGURATION OF THE IMMACULA

-TRICHY CHALLENGE, JOINTLY BY TCC AND NIT, TRICHY

The Trichy City Corporation (TCC) and the National Institute of Technology (NIT) Trichy jointly launched the Immacula Trichy Challenge, a hackathon for students to develop an indigeneous and low-cost 'Truck Mounted Street Vacuum Cleaner'. The Swachhata Hi Seva 2018 was launched by Mr. N. Ravichandran, Special Officer and Commissioner of Trichy City Corporation. The commissioner then addressed the gathering of students where he thanked NIT Trichy for providing several proposals related to Smart City initiatives. He pointed out that he has frequent consultations with NIT Trichy for various developmental activities in Trichy City Corporation. The Commissioner then elaborated several initiatives in his tenure which has helped Trichy in achieving national recognitions, with the latest being rank 12 in the list of most liveable cities in India. The event ended with the implementation of the Swachhata Hi Seva 2018 by conducting a cleaning drive outside the auditorium in the presence of the Commissioner.



SWACHHTA PAKHWADA

A mass cleaning drive operation was arranged on 11th september from NIT, Tiruchirappalli main gate to Thuvakudi as a part of Swachhta Pakhwada programme by the Dean Students office. Around 500 students voluntarily took part in order to make it successful. Dr. Samson Mathew (Dean, Student's welfare), Dr. C. Natarajan (Dean, P & D), Dr. Paneer Selvam, Dr. Kavitha, Dr. Gunavathi, Dr. Brinda, Dr. G. C. Nandi (NSS Programme officers), housekeeping staffs, along with the NSS volunteers co-ordinated the event. NIT, Tiruchirappalli Security officer and his team, National Highway Authority of India (NHAI) personnel were also assisting this programme by controlling the highway traffics.



Dr. Samson Mathew (Dean, Student's welfare), inaugurated the programme and thereafter all the students, together with the housekeeping staff took over the responsibilities and completed it successfully. A rally was also arranged from Thuvakudi to NIT, Tiruchirappalli main gate to boost the awareness among the local public regarding the usefulness of Swachhta. The rally was accompanied with banners and placards (in three different languages, Hindi, Tamil and English) to make it more visible.

INAUGURATION OF BIOGAS PLANT BY NIT TIRUCHIRAPPALLI AND BARC, MUMBAI

On 5th october 2018 Dr. V.P. Venugopalan, Associate Director, Bio-science group (A), BARC officially inaugurated the NISARGRUNA Biogas Plant in the presence of Dr. Mini Shaji Thomas, Director, NIT, Tiruchirappalli, accompanied by the registrar, deans, faculty, staff and students of NIT, Tiruchirappalli along with BARC members. National Institute of Technology, Tiruchirappalli had signed a Memorandum of Understanding (MoU) last year with Bhabha. Atomic Research Centre (BARC), Government of India, Mumbai. Based on this MoU, NIT Tiruchirappalli and BARC jointly established the DAE Technologies Display and Dissemination Facility (DTDDF) centre at NIT Tiruchirappalli. The DTDDF centre selected the location of this biogas plant behind Mega Mess II



Apart from Biogas plant construction, the DTDDF centre had also organised workshops, exhibitions, seminars and demonstrations at NIT Tiruchirappalli and in the surrounding villages to spread awareness about DTDDF products. NIT Tiruchirappalli had identified five villages for pursuing UNNAT BHARAT MISSION, and the DTDDF centre will soon implement the BARC technologies in those villages.



VEETUKU ORU VINGNAANI 2018 Annual Science Exhibition

Veetuku Oru Vingnaani (also known as VOV) is an annual science exhibition organised by NIT, Tiruchirappalli Pragyana 2019 and Media Channel Puthiya Thalaimurai. This year, the state-level finals of the event were conducted in association with Pragyana, the techno-managerial organization of NIT, Tiruchirappalli. Pragyana was also the host to the finals of VOV. The event traversed as a series of exhibitions across different districts, where enterprising students display their projects to the judges and visitors. The winners of these preliminary rounds qualify to the final state-level round, which was held at NIT, Tiruchirappalli.

The final round of Veetuku Oru Vingnaani 2018 took place on October 6, at the Barn Hall of NIT Tiruchirappalli. Dr Mylswamy Annadurai, a distinguished scientist and former Director, ISRO Satellite Centre, Bangalore was invited as the Chief guest for the Valediction Ceremony. Dr. Mini Shaji Thomas, Director, NIT, Tiruchirappalli, Mr. Karthigaichelvan, Managing Director of Puthiya Thalaimurai, Dr.S.Subbiah, former Vice Chancellor of Alagappa University and Dr.C. Anandharamakrishnan, Director, IIFPT, Thanjavur also took part in the Valediction Ceremony.



The event saw many designing prototypes and models, “Smart glass for visually impaired” and “Swachi Currency Swachh Bharath” to name a few. The winners of both Junior and Senior Categories were felicitated with cash prizes and a visit to the ISRO centre at Sriharikota, The event was an eye-opener for many budding scientists. Dr. N.Sivakumaran, Professor of ICE, Coordinated the event.

EYE CHECK UP CAMP AND TREE PLANTATION PROGRAMME



NSS mechanical engineering unit of NIT Tiruchirappalli conducted an eye camp in the Govt. High school Aachampatti with the help of Joseph Hospital, Tiruchirappalli. Around 300 students (from 4th standard to 10th standard) were screened and 12 students were found with defective vision. They were advised to take further screening in the hospital and wear spectacles, NIT Tiruchirappalli hospital medical officer, Dr. Priyanka examined the weak students. Mrs. Malarvizhi, hospital staff helped in the medical check-up. 50 saplings were brought from NIT Tiruchirappalli and they were planted by

volunteers with the help of junior Red Cross students. Dr. Jerome, Associate dean (students), NSS Coordinator Dr. V. Mariappan, programme officer Dr. Ganesh Chandra Nandi coordinated the event with the help of high school headmaster Mr. Rajasekaran, primary school headmaster Mr. Inbaraj and junior red cross coordinator Mr. Balamurugan. Associate Dean and programme officer met a few people in the village and discussed the need for facilities and areas that need to be improved. A strategic plan for improvement was finalised. The school students, teachers and the headmaster thanked NIT Tiruchirappalli and Joseph hospital teams. NSS volunteers also geared up for a massive tree plantation programme in a subsequent activity

BLOOD DONATION CAMP

The blood donation camp was organised on Saturday, 1st September, 2018 at the Institute Hospital, to support the Blood Bank, Government Raja Mirasudhar Hospital, Thanjavur. The camp was jointly organized by NSS, NCC, Institute hospital and the Student's Council of NIT Tiruchirappalli. More than 100 volunteers' donated blood. Dr. Mini Shaji Thomas, Director, NIT, Tiruchirappalli not only inaugurated the camp, but also donated blood and suggested that the institute can conduct blood donation camps at three month interval. This will help the poor patients, who are in need of blood, especially anaemic mothers, new born babies and children admitted in government hospital. The contact phone number and blood group details of the donors were recorded so as to allow them to donate at the earliest to the blood bank in the future, during an emergency. Many faculty and staff of NIT Tiruchirappalli took part. NIT Hospital Chairperson Dr. N.Anantharaman, Dean (P&D) Dr.C.Natarajan, Dean (Student's welfare) Dr.Samson Mathew, Medical Officer Dr.R.Priyanka, NSS Coordinator Dr. V. Mariappan, NSS programme officers Dr. PanirSelvam, Dr. Kavitha, Dr. Gunavathi, and Dr. G. C. Nandi along with the NCC and NSS volunteers managed the event. The NCC and NSS volunteers and hospital staff helped in the registration, of the donors, distribution of the certificate and clean-up of the area. The donors received certificate of recognition by the Govt. of Tamilnadu. The medical officer of the blood bank prioritized the donated blood for maternity purposes and childcare.



START UP WEEKEND TRICHY

The 5th edition of Startup Weekend at NIT Tiruchirappalli was held during 32nd August to 2nd September. The event started with Arun Philips, the facilitator, briefing the participants about startup and entrepreneurship. The event which is a part of a global initiative powered by TechStars and Google for Entrepreneurs, aimed at giving the participants a glimpse of the starting up in 54 hours. Suman Mishra, AVP Business Development, Tech Mahindra spoke about the Indian startup ecosystem and the current funding scenario. The participants then pitched their ideas, leading to about 35 ideas in total from which the final 10 ideas were selected.

The following mentors guided the various teams,

1. Atul Manohar, Director of User Experience, Informatica
2. Saurabh Pareek, Senior Product Manager, Paypal
3. Mothi Venkatesh, Product Marketing Manager, Playment
4. Shubham Badal, Co-founder, CybrHome
5. Naveen Athresh, Head of Product, Liquid Mind Product
6. Purnank Prakash, Co-founder at Tacnik and EsportsVilla
7. Prashanth Venkataraman, Co-founder at Beecon Fleet Management

The judges of the event were Mr. Hari Krishnan, Co- Founder, Hacker Earth, Mr.ChandrashekarKupperi, Founder, Anova Corp Services and Mr. Hari Krishnan, Fund Manager, Astarc Ventures



The winning ideas were:

1. Team "Meili", which won the coveted first prize, developed a travel guide with an automated option and integrated Augmented Reality.
2. Team "Houstel", which finished the runner-up, aimed to make students feel closer to home while being in the hostel. The initial stage would be to facilitate food delivery.
3. Team "Freshly Brewed" which won the third prize, developed a clothing line aimed at customizing apparel for college based events and societies.

NITT CELEBRATES HumaNITTy - DAANUTSAV - The Festival of Joy of Giving Week



HumaNITTy is a week long Daan Utsav initiative of NIT Tiruchirappalli, conducted during 2nd-8th October, every year and is driven by the Social Council of the Institute.

SARATHY DIWAS is for bus drivers and conductors and was held on October 2nd (Day 1). 300 bus drivers and conductors of buses plying through NIT Tiruchirappalli, received kits containing biscuits, sweets, towels, small diaries and combs. On Day 2 (October 3rd), visits to VALLUVAR ORPHANAGE in the morning and THERASA KARUNALAYAM in the evening were made. The inmates were given groceries, notebooks, stationery items and also few items to fulfil some of their wishes. The inmates were engaged in events and games. On Day 3 (October 4th), a visit to TRUWDES OLDAGE HOME was made. NIT Tiruchirappalli community were seen dancing and singing with the elderly. Grocery items for their daily needs, which included rice, tamarind, dal, tea powder etc. were provided. On Day 4 (October 5th), visits to KINDERGARTEN SCHOOLS at Thirunedungulam and Thuvakudi in the morning, and LOUBRA BLIND HOME in the evening were made. Social Council members visited the schools few weeks before the Daan Utsav to collect the students' wishes and based on their stated wishes, toys, chocolates and colour pencils were distributed to the kids of both the schools. Around 300 members of Loubra blind home were benefited by the contributions which included groceries, cots, mixers, social council's planning to provide materials for construction in the future. On Day 5 (October 6th), MANAYERIPATTI MUDHIYOR MARUVAZHUVU ILLAM in the morning and MALARCHI HOME in the evening were visited

At Malarchi home, a cheque worth Rs. 10000 was given by the EEE Association for the benefit of the mentally challenged kids. Sweets were distributed, and the kids were engaged in fun activities. On Day 6 (October 7th), kids from government schools and orphanages were invited to NIT, Tiruchirappalli and several events were organised under the banner GALA for kids and they were distributed with goodies and refreshments. On day 7 (October 8th) THUVAKUDI MIDDLE SCHOOL and THUVAKUDI MALAI SCHOOL were visited in the Morning and chairs and fans were distributed. In the evening ST.ANTONY'S OLD AGE HOME, Kattur was visited and groceries, and mosquito nets were distributed. The evening ended with a joyous melange' of music, songs and dance.



IGNITTE, THE TEACHING CLUB OF NIT TRICHY

EACH ONE TEACH ONE

NIT-T 'brothers' help these govt school boys crack JEE

DEEPAK SATHISH @ Tiruchy

COACHED by students of the National Institute of Technology-Tiruchy (NIT-T), two boys from the Perambalur Government Higher Secondary School have cleared the JEE Mains. IGNITTE, the teaching club run by NIT-T students, has been helping aspirants crack competitive examinations since its launch in 2016. K Vallarasu and R Shiva Kumar were able clear the exam this year simply by devoting their weekends to prepare with no support but that offered by the club.

Vallarasu said he never imagined that he would crack the JEE Mains. "We cannot afford to enrol in a coaching centre. The timely help from the NIT-T brothers is what helped us clear the entrance exam," the 17-year-old said. Vallarasu's father is an autorickshaw driver and his mother is a homemaker. The family lives near Ammapalayam in Perambalur and Vallarasu attended school as a residential student, mainly to access the IGNITTE programme. "My aim is to become an engineer. I will apply for my higher education at NIT one day," he added.

His classmate R Shiva Kumar, also 17, credited former Collector Nandhakumar for ensuring they both got access to coaching. "It is so tough to clear JEE as it requires a lot of studying in English. Former Collector Nandhakumar, on seeing our plight, roped in NIT-T students to give us coaching. I found the entrance exam easy," he said. Shiva Kumar's family is supported by his brother. Both the boys



A member of the IGNITTE club of NIT-Tiruchy during a coaching class | EXPRESS

will appear for the NEET on May 6, coaching for which was also provided by IGNITTE.

"On the one hand, there are people ready to pay huge amounts to just enrol their wards in JEE coaching institutes, while on the other many don't even know what IITs and NITs are. Coming from the latter background and having studied in Tamil medium, attempting the examination in English and clearing it is a remarkable, revolutionary achievement," said IGNITTE president V Sanjeev. "It is a matter of immense pride for us that the two have been able to clear JEE Mains, this year. They are now eligible to write JEE Advanced, which is considered one of the most difficult entrance exams," Sanjeev added.

IGNITTE has selectively taught 20 students since its launch. In 2017, two students cleared the JEE Mains while 13 cleared NEET 2017. Of the 13, two have been offered seats at Government Medical Colleges.

IGNITTE, The Teaching Club Of NIT Trichy, is a social responsibility club that strives to provide ample competitive exam coaching to 60 deserving 12th standard students of Perambalur Government high school, who can't afford other coaching institutes. Just 3 years old, this club has seen 40 students clear NEET 2017, boasting highest number in any government school in the state till date! The club has gone further to start an online mentoring initiative and Youtube tutorials in English, Tamil and Hindi so as to reach an even wider range of students.

NIT launches entrance exam tutorials on YouTube

EXPRESS NEWS SERVICE @ Tiruchy

NEWTON'S laws of motion, probability, chemical bonding among other topics could be considered difficult for many aspirants applying for NEET and JEE. Not anymore. With YouTube videos breaking down complex issues into simpler methods, understanding the topics would be a lot easier.

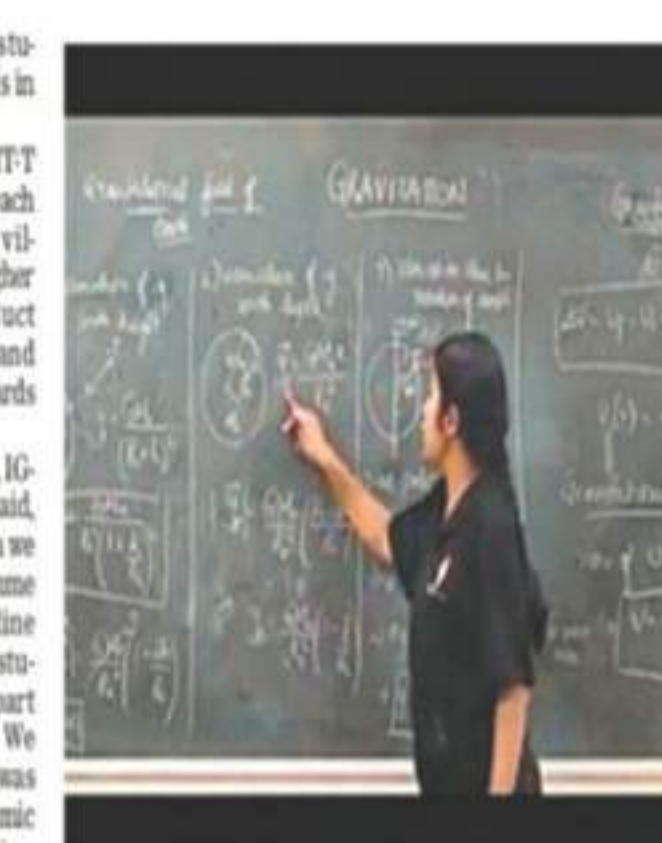
Director of National Institute of Technology Tiruchy (NIT-T) Mini Shaji Thomas recently launched a teaching programme in Perambalur, but now online videos would benefit more students across the country apart from those in Perambalur. We learn that the main problem was not language barrier or economic status or even the education board affiliation of the school. It is because of the students' ignorance about exams like the Joint Entrance Exam."

Interestingly, the brothers in their first year of NIT-T would feature in the video teaching difficult topics, subjects and equations in an easy-to-learn method. He added that the videos would be made in three different languages - Tamil, English, and

The team teaches nearly 70 students from four to five schools in the locality. Since its inception, the NIT-T students in their weekends reach out directly to Perambalur's villages and take classes for higher secondary students, conduct tests, evaluate the papers and help them orient towards the subjects.

Elaborating on the process, IGNITTE president V Sanjeev said, "We did not find a team when we launched a teaching programme in Perambalur, but now online videos would benefit more students across the country apart from those in Perambalur. We learn that the main problem was not language barrier or economic status or even the education board affiliation of the school. It is because of the students' ignorance about exams like the Joint Entrance Exam."

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Screenshot of a video on NIT-T's IGNITTE YouTube channel

Faculty adviser M Venkata Kiratiga and Dean, Students Welfare - V Sanjeev, president, IGNITTE Teaching Club, said. Most of the students did not know that 135 marks out of 360 - solving 38 out of 90 questions - was sufficient for a Home State OBC candidate to get a seat in NIT-T. The IGNITTE has been seeking to raise awareness, Mr. Sanjeev said, adding that reaching out to as many students as possible through video lectures in three languages was the very purpose of the launch of the YouTube channel.

The IGNITTE Club, with its 52 members, is confident of translating its vision into reality, with mentoring support of its Faculty Adviser M. Venkata Kiratiga and Dean - Students Welfare - V Sanjeev. Students from economically backward families can benefit from the free from the worry of incurring heavy expenditure on coaching for NEET and JEE. The coaching as it comes from those who have gone through the grind themselves, the impact is bound to be effective, Prof. Mini Shaji Thomas said, and advanced online modules on counselling as well, to address the learners.

IGNITTE takes online route to coach students

The YouTube channel would help NEET and JEE aspirants

SPECIAL CORRESPONDENT
IGNITTE, the Teaching Club of National Institute of Technology Tiruchy (NIT-T), has launched online coaching classes for NEET and JEE aspirants among students from socio-economic backward sections of the society. The YouTube channel featuring videos of NIT-T students coaching sessions in English, Hindi and Tamil was launched on Friday by the Institute Director Mini Shaji Thomas.

The concept of online classes to benefit needy students nationwide had crystallised on the basis of the experience the IGNITTE members had in Perambalur district since the Club's inception in 2016 under the collective guidance of the then Collector N. Nandhakumar and the then Director in-Charge of NIT-T G. Karasabaran.

Of the 20 rural students in Perambalur trained for the entrance examinations, 13 could clear NEET and two



passed the JEE-Mains. "We learnt that the main problem was not language barrier or the economic status of the board they were in, but their ignorance about JEE," V. Sanjeev, president, IGNITTE Teaching Club, said.

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FORUM

The Third Faculty Lecture of FORUM@NITT was delivered by Professor Raman Sankaranarayanan, Dean (Institute Development and Alumni Relations) on the topic "WHO WILL FUND ME?"

Professor Raman, in his talk, mentioned that TEQIP funding is a commitment that was laid a decade ago and stated that the implications were misread by mistaking it for generous funding. He minced no words when he declared that deficit financing is the order of the day and that we are in debt.

In such a financial scenario, the speaker spelt out the following options for an Institute like NIT Tiruchirappalli, to improve its fund generation:

1. Enhancement of Fee, especially, when we manage to attract more foreign students.
2. Departments and individual faculty must, together and separately, take to consultancy seriously.
3. Attracting partnership with Industry so as to loosen their CSR-purse strings.
4. Networking with alumni-led organizations by strengthening the bonds that are already established.
5. Levitating the strengths by a thorough SWOT analysis.
6. Adopting a market-sensitive approach to teaching, research and valorization of ideas, by all faculty members.
7. It would require a more responsive grasp of industry needs that can be competitively satisfied by the academic specialist.
8. Industry is a different platform that would demand of us the adaptability to acquire a new vocabulary, a new matrix of work and



problem-solving as well as the stamina for new learning.

9 Interacting with industries as our "Clients", remembering that era of sponsorship is over.

10. Creation of more CHAIRS.

11. Faculty members must start companies and become Entrepreneur-Academics. On the whole it was a methodical, incisive and thought-provoking examination of means for generation of funds for the higher education with lots of thought provoking questions to the audience.

SCIENCE-BASED AWARENESS CAMP FOR THE SCHOOL STUDENTS

The Department of Physics, NIT, Tiruchirappalli in partnership with Optical Society of America (OSA) and the International Society Photonics Engineers (SPIE) student chapter conducts various social welfare activities in Government and Government Tribal schools. This year, they organized Optics and Science based outreach awareness program for the students of Govt. Tribal School Hr. Sec. School, Pachamallai



Around 395 students of the school were engaged by 5 professors, 25 research scholars and postgraduate students in addition to 30 student volunteers from the Department of Physics. With adequate support from the management of the school, various events such as Quiz competition and Science Exhibition were conducted. The winners of the events were given prizes. In addition, a Career Guidance programme was conducted for the students in order to provide them information about the various opportunities and avenues in higher studies.

NATIONAL LEVEL WORKSHOP ON EMERGING NONDESTRUCTIVE EVALUATION (NDE) METHODS



A National level workshop on Emerging Nondestructive Evaluation (NDE) methods was conducted by the Department of Physics, from 3rd to 8th September 2018. NDE is an emerging field and demands a lot of trained professionals in this area for carrying out quality control in structural engineering which includes aerospace, marine, power generation, transport, defence and heavy load structures.

About 35 participants attended the workshop. It was inaugurated by Mr. T.V. Subash, NDTL- consultant BHEL-Trichy along with Prof. J. Hemalatha, Head, Department of physics and course co-ordinators Dr. B. Karthikeyan, Dr. M. Ashok and Prof. D. Sastikumar. The chief guest in his inaugural address said that there is an immense requirement of quality control in the manufacturing of products. The workshop covered conventional and advanced NDE methods which included theory, case studies and hands on training. Lectures were delivered by experts S. Gunasekar, WRI, BHEL, R. Arunan, BHEL, S. Adalarasu, VSSC (Rtd.), Raju VSSC, Trivandrum and NIT Tiruchirappalli faculty members in the field of NDE and also through video conferencing by Mr. T. Chandrashekhar, Tomtec NDT Marine Services Pte Ltd., Singapore.

HANDS-ON WORKSHOP ON COMPUTATIONAL FLUID DYNAMICS

Department of Energy and Environmental Engineering (DEE) conducted a five-days hands-on workshop on Computational Fluid Dynamics during 27th-31st August, 2018. Dr.M.Premalatha, Dr.R.Tamil Selvi and Dr. D. Ruben Sudhakar coordinated the program with the valuable guidance of head of the department, Prof. N.Anantharaman and Prof G Swaminathan and support of students and staff of DEE. The program was formally inaugurated by the chief guest Mr.R.Elankovan, AGM, BHEL on 27th Aug, 2018. The speakers from both industry and academia shared their valuable experience, imparting a good mix of fundamental and practical knowledge on the topic to the participants. The highlight of the workshop is the hands-on practical sessions where-in the participants were trained on pre-processing, solving and post-processing skills necessary to handle engineering problems through CFD.



ENERGY MANAGEMENT AND AUDIT

The Department of Energy and Environmental Engineering (DEE) conducted a five-days short-term course on "Energy Management and Audit" during 20th-24th August, 2018. Dr. M. Premalatha, and Dr. D. Ruben Sudhakar coordinated the program with the able guidance of head of the department, Prof. N. Anantharaman and support of students and staff of DEE.

The program was formally inaugurated by the chief guest Dr.V.Gopalakrishnan, former ED, BHEL, in the presence of Prof.N.Anantharaman, and Prof.G.Swaminathan. The participants included faculty members and students from various engineering institutions across the country. The speakers from both industry and academia shared their valuable experience, imparting a good mix of fundamental and practical knowledge on the topic to the participants. Live energy audit of energy intensive utilities such as furnace, compressor, air conditioner etc. were demonstrated, which was well received by the participants. Walk-through energy audit was demonstrated to the participants in two field locations, namely, (i) Trichy cold storage private ltd., Thuvakudi and (ii) STP of NITT.

TEACHER'S DAY CELEBRATION AT NITT



Teachers' Day celebration was organized in A13 Hall for the faculty members of the college. Dr. Jayakar Chellaraj, former Principal of the Bishop Heber College delivered a guest lecture on the topic, 'Teaching that Transforms'. He emphasized the values that should drive the teachers. The Director of NIT Tiruchirappali, Dr. Mini Shaji Thomas spoke about her teaching days and she emphasized the significance of teaching and congratulated all faculty members for their selfless service to the student fraternity.

ENTREPRENEURSHIP AWARENESS CAMP AT SESHASAYEE INSTITUTE OF TECHNOLOGY, TRICHY



A Three-day Entrepreneurship Awareness Camp (EAC) was conducted by the Centre for Entrepreneurship Development and Incubation – National Institute of Technology, Tiruchirappalli in association with Entrepreneurship Development Institute of India under the DST- NIMAT project 2018-19, for the Polytechnic students of Seshasayee Institute of Technology, Ariyamangalam, Tiruchirappalli during 17th -19th September 2018.

MoUs

NITT has entered into the signing of Memorandum of Understanding(MoU) with reputed industries and organizations like BHEL, Trichy, TATA Motors, TATA Steel, EPICS Purdue-IEEE, Society for Electronic Transactions (SETS), and Semiconductor Laboratory (SCL), Chandigarh. MoU's for academic activities and collaborative projects have been signed with IIT Bombay and IIT Mandi which will enable the faculty and student exchange programmes. Two Non-Disclosure Agreements have been signed with Tech Mahindra and C-DAC Mohali. These MoUs have facilitated visits of faculty members to TATA Plants located at Dharwad and Pune during Vacation and conduct Faculty Development Programs with BHEL Tiruchirappalli during first week of July 2018.



Dr.N.Sivakumaran, Chief Coordinator and Dr G. Saravana Ilango, Co Coordinator received an Grant in Aid of Rs 30 Lakhs from AICTE, New Delhi under Share and Mentor Institutions (Margdarshan) Scheme.

Dr.Sathyaraj Venkatesan and Dr.Joseph Ponniah of the Department of Humanities and Social sciences have edited a book on 'The Idea and Practice of Reading'. The book is published by Springer.

Article published in "The Hindu" on World Alzheimer's month titled "Wake me up when September Ends"/Literary Review/pg. 04 on Sunday, Sept. 16, 2018 by Dr.Sathyaraj Venkatesan, Department of Humanities and Social Science, NITT

CSE students V.L.K. Bharadwaj Manda and Voona Kushal, Published an article in IEEE POTENTIALS, the INTERNATIONAL IEEE MAGAZINE FOR STUDENTS. Our proposed research provides a cost effective system that helps one to know and control the status of different home appliances. The above work was guided by Prof N Ramasubramanian, Professor of CSE.

IEEE MEMBERSHIP DRIVE



The IEEE Student Branch (SB) of NIT Tiruchirappalli organized a briefing session on “IEEE Membership Benefits” on 3rd October, 2018 at EEE Seminar Hall. Dr. P. Raja, Associate Professor, Department of Electrical and Electronics Engineering,

NIT Tiruchirappalli was the resource person. His lecture mainly focused on the opportunities open for members of IEEE to expand their knowledge, contribute to community development, and to improve their professional skills. The talk mainly focussed on the numerous avenues that IEEE offers, beyond the well-known IEEE Xplore, the digital library of IEEE. Students were exposed to portals such as IEEE Job Site, IEEE Mentor Centre, IEEE Women in Engineering, IEEE-HKN, IEEE-USA Salary Service, Member Grade Elevation, my IEEE, Resume Lab, various Student Awards, Scholarships, Fellowships of IEEE memberships, etc. Around 50 participants from UG, PG and PhD scholars attended this lecture.

TOWARDS A ROBUST AND EFFICIENT ELECTRIC POWER SYSTEM



The IEEE-SB NIT Tiruchirappalli organized a lecture as part of its Lecture Series with experts from premier institutes. As part of the Lecture series, Dr. Subhranshu Ranjan Samantaray, Associate Professor / School of Electrical Sciences, IIT Bhubaneswar visited the campus, on 20th September 2018. Dr. Samantaray, an expert in the field of WAMS, has worked extensively with Hydro Quebec, Canada, the pioneer in the field of Synchrophasor technology for protection of the electric power system. The topic of the lecture was “*WIDE AREA MEASUREMENTS FOR PROTECTION OF TRANSMISSION LINES*”

ACTIVE POWER FILTER DESIGN

The IEEE Student Branch of NIT Tiruchirappalli organized a special lecture titled “Tutorial on Active Power Filter Design Using MATLAB” on 12th July 2018 at the Computer Centre, Department of EEE. Dr. P. Karuppanan. Asst. Professor, Department of ECE, MNNIT, Allahabad and Dr. P.Raja, Associate Professor, Department of EEE, NIT, Tiruchirappalli, were the resource persons. A total of 36 participants from UG, PG and PhD were part of their sessions.



FESTEMBER-SOCIAL RESPONSIBILITY



A social responsibility mission of Festember'18 called "Channeled Clarity Towards Charity," was also organised as an Inter-school Literature Event at Akara World School, Trichy for class 6 to 11 students. They conducted activities, such as Spelling contest Spellathon wherein the students had to spell out pronounced, Poster Designing contest where teams were asked to make posters on "Traditional and Modern Life" and "Independent Digital India". A Tackle & Block event was also organized, where contestants had to speak both for and against a topic given to them. Further, a creative writing competition Writer's Block, an environmental quiz Green Olympiad, extempore talk

about the picture shown called Pixtempore, product marketing skit competition called Thespians and a general knowledge quiz were organized for the school children, as part of Festember social responsibility activity. Mrs. Sudha Parimala, the Principal of Akara World School addressed the students and expressed her personal appreciation to the NIT, Tiruchirappalli Festember Team.

SPORTSFETE 18

INAUGURATION OF ANNUAL INTER-DEPARTMENTAL SPORTS FEST



This year, Sportsfete was held from 8th September to 10th September, comprising over 15 sport categories and 14 departments vying for the coveted trophy. NIT Tiruchirappalli organized its flagship event, the Sportsfete Marathon sponsored by Glucon-D, within the college premises, on 8th September. The race was flagged off by the Director, Dr. Mini Shaji Thomas amidst jolly cheers from the crowd, Mr AV Karthikeyan, First Batch Alumnus 1969 also participated in the event.

The Men's marathon was kicked off first, with the Women's marathon following suit a few minutes later, and the Director participated in the latter. The former involved 3 laps of a circuit around the campus which added up to approximately 10 kilometers. Meanwhile, the distance to be covered for women was around 6 kilometers. The participants were provided with water at regular intervals of the circuits to help keep them hydrated. Within almost half-an-hour of flagging off of the event, Sam from Civil Engineering department, appeared into view: he clocked in at a healthy 37 minutes and 11 seconds with the second and third close at his heels. The rest came in as well, with nearly 400 people making it to the finish line within an impressive time of 55 minutes. The Director also crossed the finish line, eliciting cheers from the crowd.



Festember®



NIT, Tiruchirappalli inter-collegiate annual cultural extravaganza, Festember, was organized between 13th to 16th of September, 2018. The famous fusion band, Pineapple Express, kicked off proceedings on the first day. The following days saw the events from dance battles to band performances and graffiti contests. Festember also had workshops on cardistry, salsa, stand-up comedy, and the marquee workshop - 'Melting Words' conducted by Rahul Kaushik. 'Choreonite' headlined the dance cluster of events while 'Gigahertz' and 'Tarangini' were the main events in the music cluster. Puzzles and quizzes were the backbone of all the literature events. Pro-Show ensured that every night ended on the right note. International sensation, Sabrina Terence got the crowd raving to her beats. Switcheroo and Skrat were the highlights of the 'Rock Nite'. For the final day, the famous playback singer, Sunidhi Chauhan, performed some of her evergreen songs. The renowned actress and playback singer, Nithya Menon revealed how demanding an acting job can be.



Dr. Mini Shaji Thomas, Director, NIT-T addressed the gathering and praised the efforts of the students. The Valedictory address by Ms. Shakthisree Gopalan underscored the ill effects of the stereotype portrayal of women. Varun Aakash, Chairman, Dr. Samson Mathew, Dean (Students Welfare), Dr Jerome, Associate Dean (Students Welfare), Dr.C. Sathiya Narayanan, Staff Advisor and Karthik Venkatachalam, Overall Coordinator also addressed the gathering.

Every year the Dance Troupe of NIT Tiruchirappalli performs their dance routine as a Host performance in NIT Trichy. DT Eastern performed for the inauguration of the Choreonite of Fesember'18 (The Annual cultural festival of NIT Trichy), followed by the Host performances of DT Western and DT Eastern respectively.



Students of SASTRA Deemed to be University, Thanjavur, receiving the Illayaraja Rolling Trophy for the overall championship of Fesember from Dr. Mini Shaji Thomas, Director, NIT-T in the presence of Singer Shakthisree Gopalan and Dr. Samson Mathew, Dean (Students Welfare).



Ah Swaad, the multi-cuisine restaurant began serving the community from the 27th of August. Our Director Dr. Mini Shaji Thomas inaugurated the new restaurant. It was a cheerful atmosphere with everyone eating to their fullest as the food was on the house



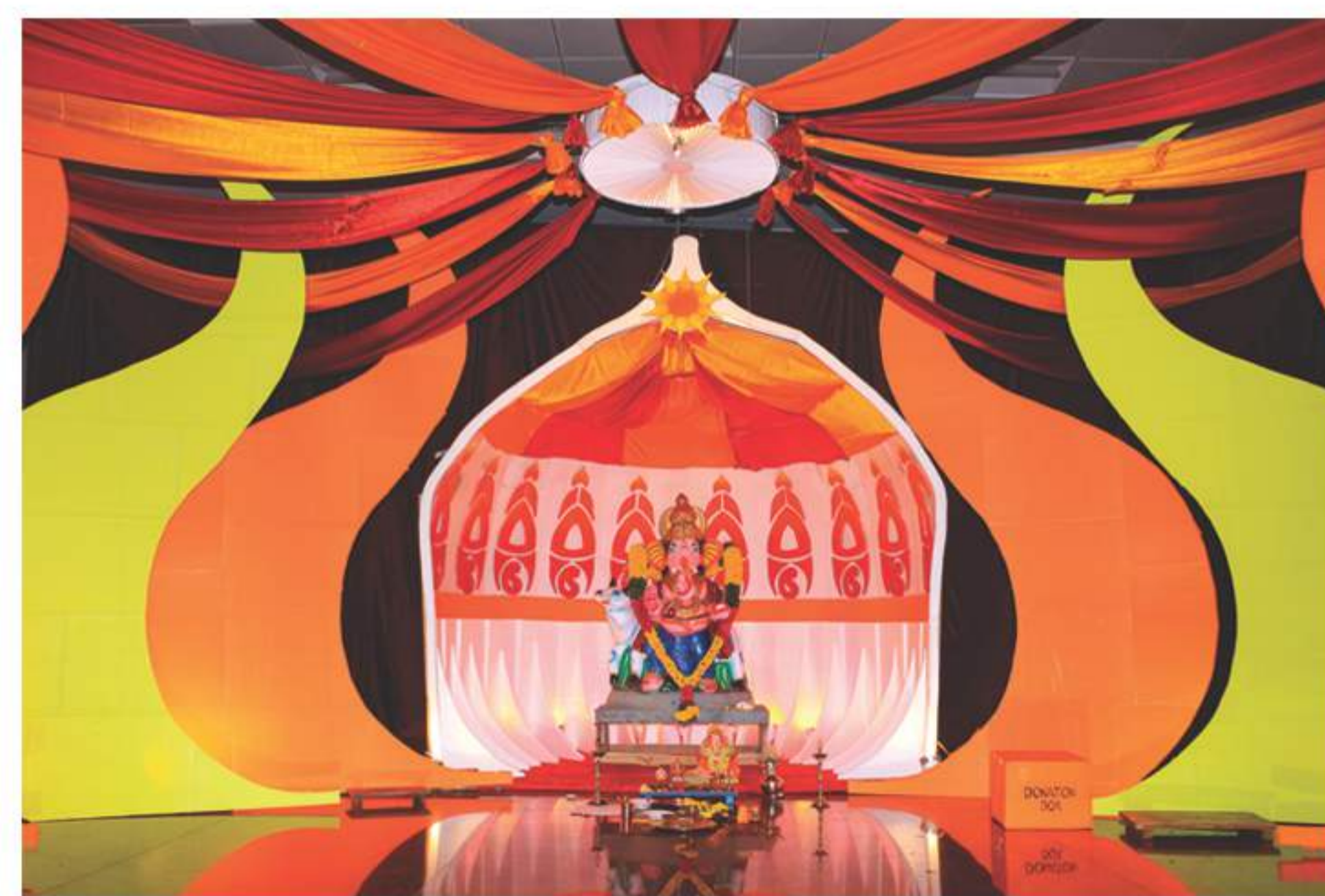
The 2K supermarket was also recently inaugurated on 19th September 2018 in the campus. It houses various sections such as Bakery, Grocery, Dry goods, Canned goods, Cosmetics, Toiletries and Stationery which caters to the needs of NITT fraternity.

GANESH CHATURTHI

Ganesh Chaturthi or Vinayaka Chaturthi was celebrated at NIT Tiruchirappalli with devotees queued up at a stunning mandap set up in the Barn Hall to offer prayers. About 200 students from various departments, primarily the Department of Architecture, helped set up the mandap and decorated the floors with splendid rangolis.

Devotees carried Lord Ganesha from the NEEDS Building to the Barn Hall through the campus streets in a procession with chants of "Ganapati BappaMorya", where the Sthapana ritual was conducted. The volunteers even made about 1230 Modaks throughout the day, to be offered as Bhog to Lord Ganesha. Aarti was held in the presence of the Deans and other members of the faculty.

The festivities lasted for three days, with the "Visarjan" ceremony on Sunday, where students carried the idol around the campus with great pompous, in the afternoon, and immersed it in the Kaveri river.



AMRUTHAVARSHINI TEMPLE CONCERTS



Temple concerts are organised by Amruthavarshini, The Carnatic music club of

NIT Trichy. Amruthavarshini kicked off the concert season with the Krishna Jayanthi Temple Concert. Held in the evening of 3rd September, 2018 it was performed by Divya (3rd year Mech), Meera (3rd year Civil), Rohit (2nd year MME) and Seetharam (2nd year Mech).

It was followed by the Ganesh Chaturthi concert held in the evening of 12th September, 2018. The concert was performed by Nandan B (4th year EEE), Ram (4th year ECE), AadityaRangan (3rd year MME) and Janani R (3rd year EEE). The concert held at the Temple near Opal Hostel, comprised of Carnatic renditions that sang in the praise of Lord Ganesha.

RECAL

REC/NIT Trichy Alumni Association (RECAL) conducted the Annual General Meeting (AGM) in NIT Trichy on Saturday, September 8th 2018. Mr. M. Krishna Sai, RECAL President, welcomed the gathering and gave overviews of RECAL Association and RECAL foundation and their activities. Mr. M. Manikandan, RECAL Secretary presented the Activities Report for 2017-18.

The election for the RECAL Office Bearers for 2018-2020 was conducted and the following Alumni have been elected as office bearers:

- Mr M. Krishna Sai, 1990 ECE, President
- Mr M. Manikandan, 2008 MBA, Secretary
- Dr Parthiban, 2000 M.Tech Industrial Engg, Treasurer
- Mr P N Subramanian, 1977 Mech, Vice President
- Mr C J Kosalraman, 1996 Architecture, Vice President
- Ms Padmapriya, 2015 M.Tech CSE, Joint Secretary
- Dr S Jaya Nirmala, 2017 Ph.D CSE, Joint Secretary

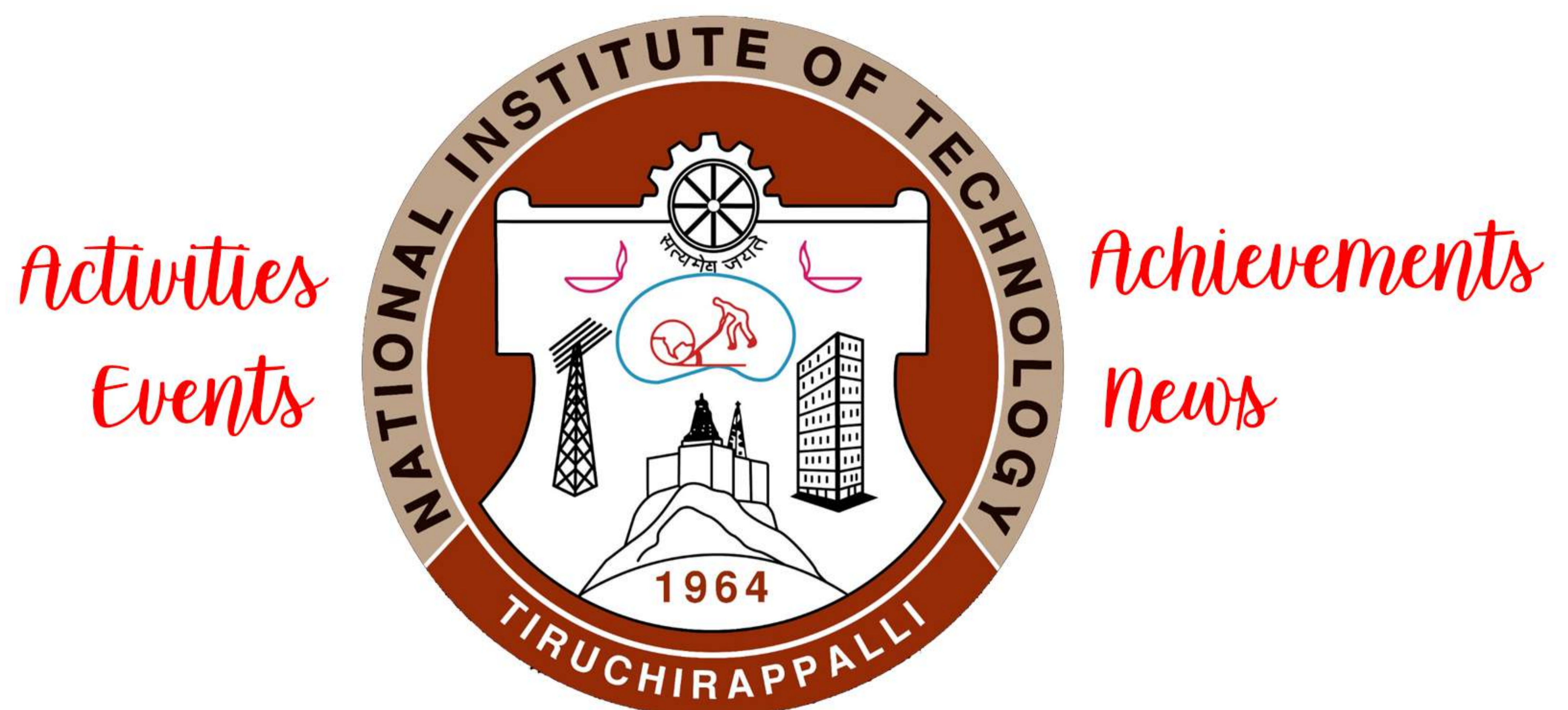
Dr. Mini Shaji Thomas, Director, NIT Trichy addressed the AGM and requested RECAL to form more chapters across the globe and talked in detail about AIC (Alumni Institute Interactive Cell) that has been formed and is already functioning to complement the activities of RECAL and also to reach out the corporates for channelling their CSR activities.

The AGM ended with M. Manikandan proposing the Vote of Thanks.



NITT TIRUCHIRAPPALLI

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