

**IIITDM
Kancheepuram
presents**

MARG DARSHAN

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Republic day celebrations at IIITDM: Snapshots of the Director's address, robotic display, the parade and dance performances by students.

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Special points of interest:

- Cluster Vents
- Human Computer Interaction Workshop
- Arduino Workshop
- Vehicle Overhauling Workshop

Educational award for IIITDM

Our Institute won the prestigious 'Educational Leadership Award' in the 8th Innovative Education Award Ceremony by 'dna and Star Group' on 18th Feb 2016.



ARDUINO WORKSHOP

The arduino workshop was conducted on 17th October 2015 by the Designers' Club of the institute. It started off with Dr. S. R Pandian explaining the importance and the numerous applications of microcontroller boards like the arduino UNO, Raspberry pi etc. The hands-on session which followed had all the participants enthusiastically experimenting with the arduino uno boards provided to them. The participants were introduced to various simple and interesting programs where they could write the code on the software and see the output on the arduino. On the whole, the workshop was quite informative and resourceful.

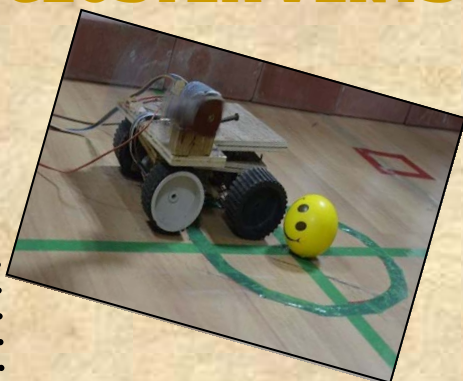


PLACEMENTS 2015

Many final year students of IIITDM were placed into various companies. About 20 companies viz., TCS, Trimble, Mu-sigma, IVTL, Triad, Veryx, L & T Tech Services, System Insights, Intellect Design, Vassar Labs, Saint Gobain, Brakes India, Zoho Corporation, Vignan University, Orzota Inc, SVP Lasers, Bally Technologies, Sundaram Fastners and Srushti visited our campus to recruit about 100 students. Eighty two students were successfully placed in the reputed companies.



CLUSTER VENTS



The "Cluster Vents" gave the first taste of a IIITDM mini fest to the students. It was an intra college fest and stretched over two days from 31st October to 1st November 2015. Various competitions were conducted by the clubs that included robotics, music, art, electronics and coding. All the events saw active participation from students. Winners of the competitions were awarded cash prizes.



HCI WORKSHOP

Workshop on Human Computer Interaction was organized in the Institute by Dr. Umarani. It dealt with the human-centered approach to the design of computer interactions. The students were introduced to ethnographic research methods and latest trends in HCI for emerging technologies such



as mobile devices and the Internet of Things. Prof. Venkatesh Rajamanickam, IDC Department, IIT Bombay, delivered the lectures. The sessions covered topics such as Ethnographic research methods, contextual inquiry, Micro interactions, User Modeling, Task modeling, Visual Design, Prototyping and Usability and HCI for Internet of Things.

CONTRIBUTION TO FLOOD VICTIMS

When Chennai, Kancheepuram and Thiruvallur Districts had experienced several spells of heavy rains and normalcy had been severely affected, the staff and faculty in IIITDM did their best to make sure that no student staying on the campus was affected. Despite difficulties faced by their own families, our Engineering Unit had continuously monitored the campus, and made sure that the best possible services were extended to the campus community. Our Wardens and Assistant Wardens were able to communicate with most of the parents, and intimate them about the safety of the students with a lot of care and patience. Sakthi Caterers and other employees did a really great work in getting supply and providing food for all the students. The institute collected funds and the students donated all that they could to provide the workers and the people in Kandigai (a nearby village) with the necessities.

"The institute collected funds and the students donated all they could to provide the workers and people in Kandigai with the necessities."



Vehicle overhauling workshop

Vehicle overhauling workshop was a pre-Samgatha event conducted by Prigma edutech services on the 5th and 6th of March 2016. The workshop was aimed at introducing automobile systems with a clear picture of the functioning of each part of a car and ways of troubleshooting it. The complete disassembly of 'Maruti 800' car gave the participants a hands-on experience and a lot of knowledge in vehicle conceptualization, overhauling and integration engineering. There was also a lecture on advanced technologies in automobiles, and it was followed by a discussion on vehicle maintenance and diagnostics.



TWARAN 2016

Our Institute achieved the **third position** in the medals tally. It secured 11 Gold, 5 Silver and 2 Bronze medals in Twaran 2016, the National Level Sports meet conducted by IITM Gwalior in January. Our students who



bagged the Best Player awards included S Nithin (Tennis) Tejaswi (Badminton) R a m e s h



(Athletics). The medal winners and participants were felicitated by the Institute. Such an achievement would not have been possible without the tireless efforts of the Institute's Physical Training Instructor Mr. P. Alaguraj.



Tennis (Men), Badminton (Women), and Carrom

8 athletic gold medals.:

100 meters, 200 meters, 4X100 meters Relay — Women



Table Tennis- Women, Cricket - Men,

800 Meters Women, 100 and 200 Meters Men



400 Meters Women and 800 Meters Men

President's video conference

The honorable President of India has addressed the higher Education Community "YOUTH AND NATION BUILDING" held on 19th January 2016.



Inspired Teachers In-Residence Programme - 2016

Dr Senthil Kumaran participated in the "In-residence Program for Inspired Teachers 2016" at Rashtrapathi Bhavan.

He interacted with the President of India, several Union Ministers, senior government officials, and educationalists from April 23 to April 29, 2016.



Blood donation camp

A Blood Donation Camp was organized at our campus jointly with the Lion's Club as a part of Social Service Group activity. The camp was held on campus premises on 17th Feb 2016 from 10.00 AM to 4.30 PM. A total of 133 donors took part in this divine cause. The donors underwent a medical check up by the doctors of the Lion's Club. Refreshments were given for each donor soon after the blood donation. Certificates were issued to all the donors as well.



Samgatha 2015

Samgatha, the annual Technical and cultural festival of IIITDM Kancheepuram, was celebrated between 24th March and 27th March 2015. The festival this year had several technical events like Astyanax (robotics), Designception, Hexagon(coding), Mech-a-thon, SPARK with the colors of cultural events like Battle of Bands, Dance wars, literary events and much more. Samgatha hosted the second Panel Discussion, Startupedia, in which students were given the opportunity to discuss and share their views with famous industrialists like Mr. Maruthachala Ponnambalam of Srushty Global Solutions Pvt. Ltd. Many tech talks and workshops were conducted during Samgatha by famous firms like Mozilla Community and ALTEM. Talks by famous philosophers and entrepreneurs like King Siddarth had a place in Samgatha. Makers' Faire, as a hook to promote Make in India, was held during Samgatha in which students exhibited their prototypes and several companies familiarized their products to the students.

"Samgatha hosted the second panel discussion, start up India in which which students were given the opportunity yo dicuss and share their views with famous industrialists"



Guest lectures on campus

- "Disruptive innovations on large scale" by Mr. Manikandan Thanggarathnam from Kindle device software group on 7th October 2015
- "Data mining via manipulating probabilistic distribution over permutation" by Dr. Yoshinori Takei from Nagaoka University, Japan on 3rd February 2016
- "Applications of Optimization in Air Traffic Disruption Management" by Professor Prabhu Manyem, College of Science, Nanchang Institute of Technology, China on 11th February 2016
- "Sensors with special reference to Marine Applications " by **Dr Dhilsha Rajapan**, Scientist & Group Head, Marine Sensor Systems, NIOT on 24th February 2016
- "Sidha Medicine Manufacturing using Modern Technology" by experts in Siddha medicine and faculty from IITG & IITM
- "Intelligent Manufacturing—Singaporean way" by **Shri NARAYANAN, AOSS New Zealand** on 9th March 2016

Student Achievements

Tejaswini Chatty, (B. Tech II year Mechanical Engineering) and Pramodh Nareshkumar, (B. Tech III year Mechanical Engineering), stood Third in the National Level Autodesk Student Design Challenge conducted by AUTODESK.



Research publications

- ◆ SJ Shin, J Woo, DB Kim, Senthilkumaran K, S Rachuri, Developing a virtual machining model to generate MTConnect machine-monitoring data from STEP-NC, International Journal of Production Research.
- ◆ SC Feng, Senthilkumaran K, X Sun, "Energy Assessment Methodology for Mechanical and Electrical Product Assembly Processes", ASME 2015 International Manufacturing Science and Engineering Conference, Charlotte, North Carolina, USA.
- ◆ R. Deepakkumar and S. Jayavel, Numerical investigation on performance of finned-tube heat exchanger with hybrid rows of tubes, Proceedings of 23rd National Heat and Mass Transfer Conference and 1st International ISHMT-ASTFE Heat and Mass Transfer Conference IHMTTC2015, Paper No. 290, ISRO Thiruvananthapuram.
- ◆ R. Deepakkumar, A. Jaganathan and S. Jayavel, Performance assessment of heat exchanger with airfoil pin-fin inserts, Proceedings of 5th International Conference on Advances in Energy Research (ICAER-2015), Paper No. 378, IIT Bombay.
- ◆ K. Meghana Sarat and S. Jayavel, Numerical study of laminar flow characteristics for flow past rotating cylinders, Proceedings of the Forty Second National Conference on Fluid Mechanics and Fluid Power (FMFP2015), Paper No. 222, NITK Surathkal.
- ◆ R. Deepakkumar and S. Jayavel, Numerical study on laminar flow characteristics for flow past cross-confined hybrid rows of tubes, Proceedings of the Forty Second National Conference on Fluid Mechanics and Fluid Power (FMFP2015), Paper No. 202, NITK Surathkal.
- ◆ R. Deepakkumar, S. Jayavel and Shaligram Tiwari, Computational study of fluid flow characteristics due to confining walls with local waviness, Proceedings of XXVII IUPAP Conference on Computational Physics: CCP2015, Paper No. FDCM-O-86, IIT Guwahati.
- ◆ N.S.Narayanaswamy and N.Sadagopan, Connected (s, t)-Vertex Separator Parameterized by Chordality, Journal of Graph Algorithms and its Applications, vol. 19, no. 1, pp. 549-565, 2015.
- ◆ S.Dhanalakshmi, V.Manogna and N.Sadagopan, On 2k 2 free graphs - Structural and Combinatorial View, in the proceedings of International Conference on Mathematical Computer Engineering ICMCE, VIT University, Chennai, 2015
- ◆ S.Dhanalakshmi, N.Sadagopan, D.Sunil Kumar, Tri-connectivity Augmentation in Trees, in the proceedings of International Conference on Graph Theory and Applications (ICGTA), Amrita University, Coimbatore, India, 2015
- ◆ Vandhana.C, S.Hima Bindhu, P.Renjith, N.Sadagopan and B.Supraja, Spanning Tree Enumeration in 2-trees: Sequential and Parallel Perspective, in the proceedings of International Conference on Graph Theory and Applications (ICGTA), Amrita University, Coimbatore, India, 2015.
- ◆ Ganesh S and Jayabal K, Development and testing of Energy Harvesting Tiles, International Conference on Advances in Industrial and Production Engineering, AIPE 2015, Dec 26-27, 2015, Kochi, India
- ◆ Gauri R and Jayabal K, Contact Stress Analysis of Human Lumbar Spine, International Conference on Modern, Intelligent and Green Manufacturing, ICMIGM 2015, Dec 11-12, 2015, Erode, India
- ◆ S. R. Pandian, Networked Autonomous Robots for Environmental Monitoring and Intervention, NDRF Journal on Networked Autonomous Unmanned Systems, 2015 (Invited Paper).
- ◆ Gourav Pandey, Sreekumar M, Development of High Strength Bio-Composite Material for Light Weight Serial Robot Mechanisms, Procedia Computer Science, 76 (2015) 512 – 521
- ◆ Jaiswal Sanket, Muthuswamy Sreekumar, Instability analysis of mosquito fascicle under compressive load with vibrations and microneedle design, Journal of Bionic Engineering. 12 (2015), 443-452
- ◆ Chandrasekar E and Sreekumar M, Implementation of a Simplified Modeling Scheme for the Control of SMA Actuators using LabVIEW, Proc. 10th International Symposium of Mechatronics and its Applications (IEEE-ISMA'15), 8-10 Dec. 2015, Sharjah, UAE
- ◆ Abdul Majeed K K and Binsu J Kailath, "CMOS Current Starved Voltage Controlled Oscillator Circuit for a Fast Locking PLL" in the 12th IEEE India International Conference, INDICON 2015, held in New Delhi from 17th to 20th Dec 2015
- ◆ E.Papanasam and Binsu J Kailath, "Electrical Characteristics of Pd/Al₂O₃/6H-SiC MIS Capacitors" (2016) in the National Conference on Semiconductor Materials and Devices held in IIT Jodhpur, from 4th to 6th March 2016.

Celebrating Republic Day with Robotics at IIITDM



Freshie night 2015

The air was filled with an aura of splendour when the freshmen of IIITDM this year were welcomed by their seniors in the most humble manner. The freshmen showcase their cultural skills and made a smooth beginning for their life ahead in IIITDM. Various competitions were also conducted as a part of the event in which few of them were awarded Mr. Freshie and Mr. Freshie titles.



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