

IIITDM Kancheepuram  
presents

# MARG DARSHAN

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# ADMISSIONS 2018

IIITDM Kancheepuram is one of the reporting centers for carrying out the counseling process undertaken by JoSAA 2018 for admission to different UG level engineering programs running at various IITs, IIITs, NITs, GFTIs, etc. The seven rounds of counseling process came to an end on July 23, 2018. Around 2500 people visited the Institute during the month of July and around 404 students were admitted in the B. Tech. and Dual Degree programs at IIITDM.

# ORIENTATION PROGRAM

For students who had taken admission in the UG/DD programs, one week orientation program was conducted. The program started on July 23, 2018 with the inaugural speech by Dr. SV Mani, proprietor, PI Water and BCS technology, and by the Director IIITDM Kancheepuram. In the following days various programs like Yoga session, self defence skills session, First Aid session, Meeting with HoD's and Deans, Invited talks on Design Thinking, Human values, Teacher Learning Process, etc. were conducted from July 24 -31, 2018.

# INDEPENDENCE DAY CELEBRATION

The 72<sup>nd</sup> Independence day of the nation was celebrated with great enthusiasm and spirit on August 15, 2018. Prof. Banshidhar Majhi, Director, IIITDM Kancheepuram, hoisted the the national flag and addressed the audience highlighting the sacrifices of our freedom fighters followed by the national anthem. Students displayed their talent and showcased their patriotic spirit through various programs like dancing, singing and by performances highlighting diverse culture of India signifying the unity in Diversity. A student APP was also launched on that day by the Director. The meritorious students and winners of design competitions, were also felicitated by the Institute. A large gathering comprising of faculty, staff, students and people from neighborhood turned up to witness the flag hoisting and take part in the independence day celebrations.



# SPIC MACAY and Gandhi Jayanti Celebration

SPIC MACAY chapter at IIITDM Kancheepuram was inaugurated on September 6, 2018. Mr. Chinmaya Arjun Raja, Volunteer and State Coordinator for SPIC MACAY Tamilnadu lauded the contribution of SPIC MACAY in the presence of Director IIITDM Kancheepuram, Faculty and students.

On September 27, 2018, Dr. V R Devika, a well-known Gandhian, visited the Institution on special invitation and taught the students the art of spinning using charkha as part of Gandhi Jayanti celebration. Students also enacted a Hindi drama on Gandhiji's teaching which was well received by the audience.

## MaDeIT

Workshop on Biomimicry: On August 4, 2018, MaDeIT organized a “Bio-inspired Design” workshop for SMEs, Startups and students. The program was anchored by experts from the Biomimicry India network - Mr. Prashant Dhawan and Ms. Seema Anand.



Workshop on Video Ethnography: On August 18, 2018, MaDeIT organized a workshop on video ethnography for Startups and IIITDM community. The workshop involved screening of an ethnographic film “Kashi Labh” by Mr. Rajat Nayyar, followed by a discussion on the aesthetics of death and its relevance to design thinking.



Addition of two New Incubatees: On August 27, 2018, MaDeIT conducted its fifth round of incubatee selection. Two companies – Vamosystems (people counter) and Digi2o (automotive electronics) – that were selected have subsequently signed the contract with MaDeIT. MaDeIT currently has ten companies in its portfolio.



Summer Sandbox Pre-incubation: Two teams (eight students) that participated in the summer sandbox programme (May-Sep 2018) successfully completed their prototypes. One of the teams (Rahul Narasimhan, Anand Srivatsan, Utkarsh Singh) developed a concept prototype for a digital prosthetic leg. A second team (Sravan Kumar, Anusha, Jeeva Keshav, Harshavardhan) worked on a device for milk fat detection. A bi-product of this work was the design of a new digital lactometer. This work was guided by Dr Jayachandra Bingi.

## BiRD Lab



Workshop on Photocatalytic Technology And Innovation WPTI-2K18: On September 24-25, 2018, the workshop was jointly conducted by IIITDM Kancheepuram and AMET university as a part of the strategic collaboration at AMET University. The workshop was inaugurated by the head of the institutions of IIITDM Kancheepuram and AMET University. Dr. Sudhir Varadharajan gave a key note speech on behalf of IIITDM Kancheepuram on innovation. The event witnessed a good response from researchers from institutions in and out of Chennai. The AMET University felicitated Prof. Bhansidhar Majhi as a token of gratitude. The invited speakers included eminent professors from IIT Madras and other institutions of Tamilnadu. The event conveners were Dr. Jayachandra Bingi (IIITDM Kancheepuram) and Dr. Anita R Warriar (AMET University).





The project student from Bio-inspired research and development Laboratory (BiRD Lab) Ms. K. Bhavana participated in Aditya Birla Group's, "Reinventing the Future Manufacturing Exhibition" and won the regional prize for her best bio-inspired ideas. The jury were fascinated by bio-inspired design concept and she won accolades from esteemed members from various automotive industries like bajaj, Hyundai, Daimler etc. Further, the institute is mentioned in "Manufacturing Today" magazine (September edition). The Event organizers also appreciated IIITDM Kancheepuram and awarded the "Institute of Design" shield.



## INVITED TALKS

Representatives from the company "Datafoundary" gave a talk titled "Machine Learning Applications in Industry" on August 29, 2018 at the invitation of Dr. V. Masilamani.

On September 19, 2018, Dr. Vijay Anand, Director (Engg.), Aricent, delivered a talk on "Internet of Things for Connected Vehicles" at the invitation of Dr. M D Selvaraj.

Col. Santhos Dabral, delivered a talk on "Measurement System Analysis and Design of Experiments" on October 10, 2018 at the invitation of Dr. V Naveen kumar.

# RoSMa 2018



Indian Institute of Information Technology Design and Manufacturing Kancheepuram (IIITDM Kancheepuram) organized a three-day International Conference during July 19-21, 2018 providing a forum to discuss about the current issues and trends in the development of robotics, application of smart manufacturing, application of smart materials in robotics and allied areas. International Conference on Robotics and Smart Manufacturing (RoSMa) 2018 attracted submissions from Canada, Italy, Kazakhstan, Malaysia, Mexico, New Zealand Singapore, Taiwan, and the USA, besides India. Out of 225 submissions, 131 were accepted, presented in the conference and published in the Journal of Procedia Computer Science, Elsevier.

An "International Student Robot Competition (ISRC-RoSMA2018)" was also part of the conference which was conducted in parallel with paper presentation. The competition involved testing low cost robots for three dimensional steering, obstacle avoidance, navigation through conduits, staircase climbing and human detection. This task was decided with the aim of identifying humans trapped under debris during disasters such as earthquake. The juries were from Italy, Singapore and Korea.



Rosma2018 was supported by Indian Space Research Organization (ISRO), Indian National Science Academy (INSA), University of Genova, Italy, Emaro (European master on advanced robotics), IFToMM (International Federation for the promotion of Mechanism and Machine Science), Association of machines and mechanisms (AMM) and The Robotics Society. This conference was organized by Dr. M. Sreekumar. Cultural and heritage events such as bharatham, classical vocal, silambam and cendai melam were performed as a part of evening celebrations. The next edition of the conference will be held in 2020.

# Glimpse of events at RoSMa 2018



# TEACHING AND LEARNING CENTRE



TLC Staff conducted a Hands-on Workshop on Arduino for SRF Foundation (SRFF) Master Trainers, as part of Capegemini-SRFF-TLC school adoption program. About 25 teachers from 54 high schools in 9 cities across India attended the six-day workshop in TLC from July 23-28, 2018. Dr. Suresh Reddy of SRF foundation, Senior Director Kumar Anurag Pratap of Capegemini, and Dr. S. R. Pandian took part in the event.

About sixty Students and a teacher from Lightworkers Academy, Nallambakkam visited TLC facilities on September 9, 2018. The school is setting up a Robotics Lab with support of TLC. Mr Kazuya Miyagawa, an intern from Nagoka University of Technology, Japan is seen demonstrating an underwater robot he designed to the students. Another intern from same university Mr. Kazuya demonstrated underwater robot to Lightworkers academy school students.



As a part of engineering curriculum, TLC staff conducted an one-credit course "Open source Laboratory development" for Dept. of CSE, Veltech University, Chennai. Thirty students enrolled for the three-day workshop conducted in September. In picture, Students of Veltech Dr.Rangarajan Dr Sakunthala Technical university, Chennai experimenting on Arduino

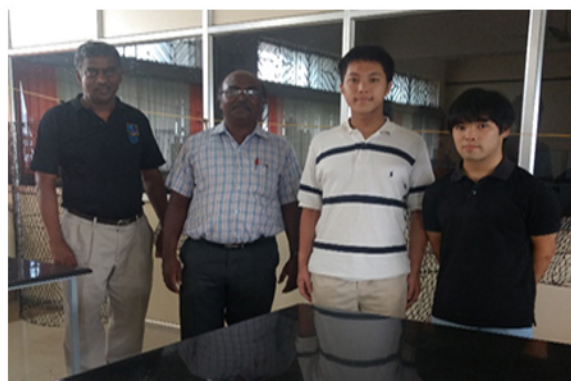




Four students from Nagasaki University, Japan volunteered with TLC-assisted local government and private high schools in Chennai. They taught Japanese language and culture (origami, cooking and lifestyle) during Aug-Sept. In picture, Ms. Ayami Hagiya, Ms. Aki Hirai and Ms. Nanaho Oyamma in Japanese Traditional attire cooking Japanese curry and Soup for School students.



Dr. S. R. Pandian delivered a talk on underwater robotics to Tamil Nadu Fisheries College & Research Institute, Chennai faculty and students on Sept. 17. Mr. Miyagawa from NUT, Japan and Mr. Ryo Itachiyama, student volunteer from Nagasaki University, Japan demonstrated their underwater robot during the visit. In picture, Dr. S. R. Pandian along with Tamil Nadu Fisheries College Faculty and Japanese Intern.



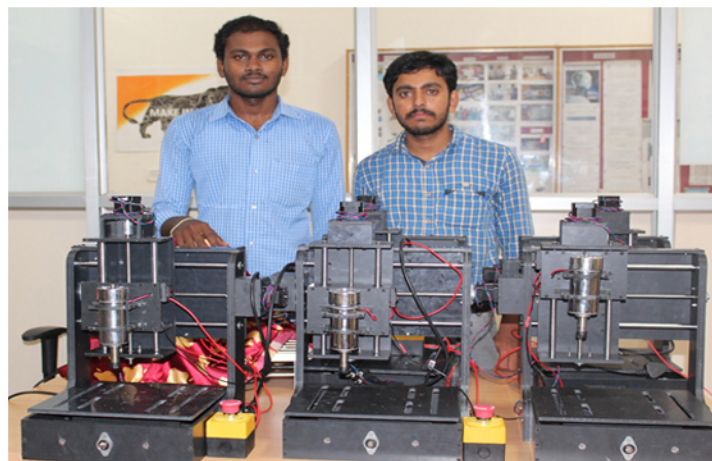
Dr. S. R. Pandian gave an invited talk at the “Design Aspects of Products and Value Addition” Workshop organized by the Entrepreneurship Development Institute, MSME, Chennai on September 1, 2018.



As a part of Service Learning under the ELE526EA: Mechatronic Systems Design course, MTech Smart Manufacturing(SM) students of IIITDM developed eight low-cost CNC Milling Machines under the guidance of Dr. S. R. Pandian and TLC Engineers. The Machines were handed over to the eight government high schools supported by TLC under the Capgemini-SRFF school adoption program Tinkering Labs on September 21, 2018. In picture, (left) Dr. S. R. Pandian presenting CNC Milling Machine to Headmaster of GHS, Kandigai and Trainers of SRF, Chennai as part of InnoSTEAM laboratory program. (right) Mr Rohith Jha of MTech SM demonstrating about CNC Mill.

Dr. S. R. Pandian gave a presentation on “From Projects to Products: Innovation and Entrepreneurship” to students and faculty of Muthayammal Engineering College, Rasipuram on September 29, 2018.

Mr. Madhu Kumar and Mr. Subash Kannan from SRF, Bangalore fabricated five CNC Milling machines in a span of 12 days with technical support from TLC engineers from 6th October to 17th October 2018. The machines will be used in the five-government high school Tinkering Labs in Bangalore supported by Capgemini and SRFF.



## Hindi Pakawara

Hindi Pakhawara was celebrated from September 15 to September 29, 2018 and many events and competitions were conducted during the period for the Faculty and Staff. There was tremendous response from the faculty/staff and students who participated in the various competitions for Poetry recitation, Story Telling, Hindi Quiz, Essay competition, Drama etc. under different categories. All programs/events were a complete success with many non-Hindi speaking faculty/staff and students expressing desire for learning Hindi. The winners of the competitions were declared and prizes shall be distributed.

## Teachers' Day

In memory of great teacher and former president of India, late Dr. S. Radhakrishnan, Institute celebrated the Teachers day on September 5, 2018. Prof. Banshidhar Majhi distributed the prizes to the winners of various sports competitions. Students also conducted a quiz competition for the faculty. All the events were participated by teachers and students with equal enthusiasm.

# WORKSHOPS & TRAINING

Self-sponsored Short Term Training Programme (STTP) on "Industrial Automation and Control" was conducted during July 5-7, 2018 by Department of Electronics and Communication Engineering, IITDM Kancheepuram. The event was co-ordinated by Dr. Vijayakumar K and it was attended by more than 40 participants from all over the country.



Self-sponsored Workshop on "Technical Writing and Publishing with Advanced Computer Tools" was conducted during September 8-9, 2018 which was attended by more than hundred participants across the country. The workshop was coordinated by Dr. K Vijayakumar, Dr. K P Pradhan and Dr. Munesh Singh.

Self-sponsored Workshop on "Improve Research Discoveries and Identifying Paper Publication Opportunities" was conducted on October 5, 2018 which was attended by more than forty participants. The workshop was coordinated by Dr. K Vijayakumar, Dr. K P Pradhan and Dr. Munesh Singh.

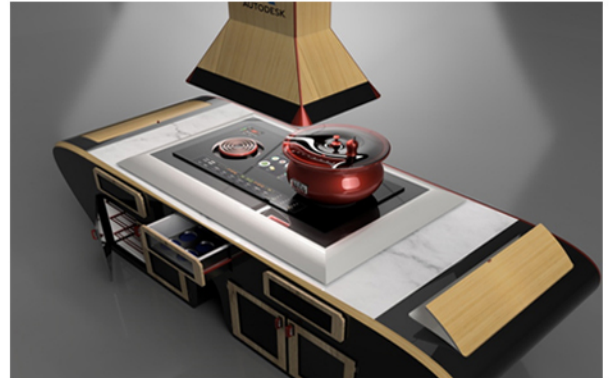


# STUDENTS ACHIEVEMENTS

List of students who had been nominated for excellence in design, innovation and manufacturing and felicitated on August 15, 2018.

Sl. No	Name of the event / Contest	Name	Roll No
1.	Med Tech Hackathon	Ismail P	EDS17M009
		Amiya Kumar Mondal	CDS17M003
		Patel Zeel Bharatkumar	SMT17M010
		Shreeshail S Tigadikar	SMT17M011
		Balaji	EDS16M013
2.	Industrial Consultancy with Tube Investments (TI) of India Limited	Kotha Raj Kumar Reddy	MFD15I009
		Kakara Vinay	MDM15B015
3.	Defence Expo 2018	Kale Aakash Sunil	MFD16I012
		Vivek Yadav	MSM16B036
		Adithyan. T R	MFD16I002
4.	US Marines Refine Challenge: GUNG HO	Subhajit Sinha	MFD16I016
		Hrishikesh Hemant Borate	EVD16I006
5.	Aditya Birla Groups' Manufacturing today and reinventing the future design contest	K Bhavana	MFD14I005

Goutam Manoj (MFD14I003) won 4th place (18-25 category) in "India Design Challenge 2018" conducted by 'AUTODESK'. 3D rendering of the design created by him is shown at the right. This modern kitchen tabletop would be every chef's dream!



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