IIITDM Kancheepuram Presents

MARG DARSHAN

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Automotive Design Workshop

IIITDM Kancheepuram on 21 January 2017 hosted an automotive design workshop on "The Future of Urban Transportation" in association with Society of Indian Automobile Manufacturers (SIAM) Design Group. For the first time in Chennai, leading transportation designers from India's top automotive companies like Ashok Leyland, General Motors and Royal Enfield along with IIITDM Kancheepuram faculty



transportation in the future.

took part in this one-of-a-kind of workshop which focussed on the theme "Design of Share Autos". In this one day workshop, IIITDM's students had the opportunity to interact with senior automotive design professionals on the latest design concepts, tools, and technologies that are used in the field of Automotive Designing. In the field of automobiles, a good design is the perfect blend of form and function. With senior styling experts from the various companies mentoring them, student groups came up with ideas and designs on improving the public transport via *share auto*. Inspired by the saying, "All automobiles were once just dreams inside someone's head", students were encouraged to think towards designing sustainable and practical solutions for

Special Talk on Narcotics

Dr. A Vengadesh Babu, Assistant Narcotics Commissioner, Central Bureau of Narcotics, commenced his lecture by briefing the audience about the various drugs like Marijuana, Heroin, Cocaine and how all these drugs cause instability in the mind and body on 02 March 2017.

He highlighted the importance of the role of society in preventing such drug abuse and stressed upon the fact that if all individuals live as a group and are shielded from loneliness, drug



abuse can be greatly reduced. Information on experiments conducted on mice regarding the effect of drugs and how these are increasingly addictive were also brought to the audience's notice, and the students were made to realise that drugs are a potential self destructor. The session concluded with a Q&A session where the students eagerly participated. The seminar was a great learning experience for all the listeners and would surely help us pull the plug on the drug menace.

Republic Day Celebrations





26th January, the Republic Day of our incredible country, is observed throughout the country every year with awe and respect. Our Institute also celebrated the occasion with the utmost admiration for the nation's historical journey.

The celebration started off with the Hoisting of the Tricolour National Flag in front of the New Administration Block by the Director of the Prof.R.Gnanamoorthy. The Director in his keynote speech discussed the important happenings of the past year. His excellent address discussed the Central Government's timely surgical strikes against the threats posed to the country's security and stability both from within and outside the country. The speech was followed by myriad exuberant performances by the institute's students, and school children who were invited for the occasion by the VIDHAI team of the Institute. These performances comprised of speeches, dance performances and numerous vocal recitals of patriotic songs by the members of the Institute's Music Club. The themes of the speeches ranged from the Role of an Engineer towards the development of the country and its citizens to the progress India has achieved in these 65 years as a Republic.

Guest Lecture by Prof. Kaustav Sengupta

Prof Kaustav Sengupta— an award winning academician with vast expertise in the areas of fashion trend analysis, colour psychology, ethnography, brand positioning and consumer behaviour— delivered a guest lecture in IIITDM Kancheepuram on the 29 March 2017. He spoke at lenth about the youth socio-psychology of India. In the two-hour long session, Prof. Sengupta shared his views on the changing ideologies of the youth and gave a fresh perspective on the Indian ethnography.

He discussed the Indian Millennials – a new crop of generation next thinkers who dare to be independent and different and who are not afraid to break the stereotypes. These Millennials are totally remodelling the economic and cultural landscape. Professor Sengupta beautifully described this metamorphosis in great depth and detail, and also cited many witty and funny examples to keep the audience in rapt attention.

The lecture was thoroughly informative as well as entertaining. It gave an excellent viewpoint about the changing trends and provided food for thought from an industry expert's point of view.





Invited Guest Lecture on Ajanta

An invited talk by Shri S. Swaminathan on Ajanta Paintings was given in I I I T D M Kancheepuram on 2 February 2017. Ajanta paintings are a series of murals in a multitude of



caves. These myriad pieces of exquisite art belong from the 2nd century BC to 6th Century AD and thus encompass almost all the art moments of Indian subcontinent. Shri. Swaminathan narrated how the caves used to be the residence of Buddhist monks from various places during the four months of rain in the country. These caves and their paintings and sculp-



tures were made by these monks as a form of devotion to the God. Many of caves the are indeed designed in the layout of a Buddhist temple. Although colours vibrant and lustre

paint that must have been there once is now gone in many of the paintings, no one can argue about the eternal superiority of these paintings in terms of their intricate details and symbols. The distinguished speaker extrapolated a story from the Jataka Tales from one of the cave paintings. The tale was about an Elephant who was one day taken to the king's court, but was sent back later since he had to take care of his blind parents. One peculiar feature of the paintings that depicted these stories is that the order of parts of the paintings is arbitrary. Shri. Swaminathan argued that the order must have depended upon the space provided to the artist for painting.

Obviously, the talk was very successful. The question and answer session after the talk was noteworthy. The quick and precise responses provided by the professor showed his experience in the field. The session ended with the audience enthusiastically applauding the mesmerizing talk. The Machine Dream...

Hey, this isn't exactly Machine Design.
You just drifted into my life.
It's just like how Mechanical Assemblies work.
Every time I think of you,
It drives the Internal Combustion Engines
Inside me go crazy.
Who are you? You must be a sorceress,
For you melted and Moulded my heart.
I was The Engineer of Reliability,
But you made my Steps to Innovation
Look naive and irrelevant.
I don't know what this is.

This new feeling,
But I know now I could not control the **Linear systems** in me,
I have hopelessly and unconditionally fallen for you.
I couldn't help it, I didn't plan for this,
This unknown feeling,
Maybe they can call this **Automotive Mechanics**?

I came out to tell you, to confess, in hope to create a new Network between us, But who is this new man? Who is this unknown man who Looks like he is straight outta Robotics lab? I see you now, Holding hands with him, My heart crashed, The Electrical Drives in me sparked, My heart is ripped open, It's now an Open Source Lab Code, I don't get it, Pain is all I feel, I was promised, but hey, Maybe I was at fault. Maybe I was Thinking like an Engineer, Maybe I was at fault, Not Understanding Pointers clearly, Sigh

I know now what is to be done,
My life is a **Generated Mesh** now.
I have to let it go,
But I could never do it, never in a million years.
That's when I realised,
After all this time,
After all this,
I have been a success at one thing in life,
At **Managing Nothing**.

Hostel Tournaments

A series of hostel tournaments organized by the sports committee of IIITDM Kancheepuram were held in March 2017. The students were randomly split into six groups named after famous mountain peaks in India, namely Aravalli, Sahyadri, Shivalik, Nilgiri, Udayagiri and Vindhya. The tournaments proved to be an instant success after a hectic week of exams. Badminton, basketball, volleyball, cricket, carom and chess tournaments were some of the popular events. A supportive and cheering audience; enthusiastic players; and an aura of healthy competition were a part and parcel of the institute's hostel tournaments.

This was a perfect stress buster and many found it highly appealing to plunge into some physical activity at the end of the day. It was a great opportunity for all the students to get to know one another too. A true sense of unity could be felt as students bonded and played hard for their team. In all, these hostel tournaments will be a great memory to cherish for a very long time for the students in the institute.







Guest Lecture by Prof Venkat Allada

On 31st January 2017, Prof. Venkat Allada, Vice Provost of Graduate Studies at Missouri University of Science and Technology (MST), the USA, gave a lecture in IIITDM Kancheepuram about higher education opportunities in MST.

The lecture focused on students' career opportunities in the US; how MST would be a valuable platform; and how internships and funds would help getting students get a world-class education. Dr Allada also pointed out the reasonable living expenses and facilities available for students, and also provided the statistics showcasing the achievements of MST.

The event was also highly interactive as Dr Allada responded enthusiastically to the queries of students and faculty. He was also appreciative of the specializations offered at IIITDM for the students of technology.

The glimpse into a potential international exposure available to the students of the Institute was a valuable experience gained by the students through Dr Allada's special lecture.









Wall painting by IIITDM Students

Art Team Project — Wall painting – 1

Everything happened so fast; one minute the art team at IIITDM Kancheepuram was painting a section of

the flyover in front of NIT Trichy during a competition and the next, the team was coming up with plans to paint the wall in the Academic Block of IIITDM. The supervising faculty, Dr. Priyanka Kokil, is the guiding spirit behind the wall painting project. The overall concept was to display the balance and interdependence between nature and technology, along with their impact on human civilization.

The art team came up with the design for the wall over a few meetings, finally deciding upon a spinoff on the classic yin-yang symbol, showing interdependence, correlation and the complementary characteristics of two seemingly opposite concepts: nature and technology. The hands give off





a feel of the sphere being held close to the torso and therefore, one's heart, thus signifying how much a person values both these aspects of physical life.

Art has the power to transform, to illuminate, to educate and to inspire. By doing what we love, the art team at IIITDM Kancheepuram aspires to awaken the hearts of others to embrace difference in the world.

Events

- A Special Talk by Dr. Sandeep Chaterjee (CEO, EVx) on "Innovation and micro apps Smart Cities, Smart Villages and Smart Citizens" was held on 28.03.2017.
- A Special Talk by Prof. S.Swaminathan, Emeritus Professor, IIITDM Kancheepuram on "Mahabalipuram: Unfinished Poetry in Stone" was held on 23.03.2017.
- A Special Talk by Dr. A.Velayudham, from CVRDE, Avadi on "Programming 5 axis machines for free form machining" was held on 20.03.2017.
- A Special Talk by Dr. Sundar Krishnaswami from GE Aviation on Trends in Aircraft Engineering Analytics was held on 24.02.2017.
- A Special Talk by Prof. Swaminathan on Indian Arts & Culture (2/4) was held on 23.02.2017.
- A Special Talk by Dr. A Divya on Narrative and Reflective Writing as Artifacts was held on 9 Feb 2017.

Students Achievements

- Ms Manogna Jambhapuram, a PG student won best research paper award in CSS-2017 held at IISc
- Shri. Teja Balu, a third year Dual Degree student, won Second Prize in Design for Automotive Challenge globally.
- Students of IIITDM designed a reconfigurable which can be used either as a shoulder bag, hand bag, or back-pack.
- Students of IIITDM have come up with an effective design for a podium. The design facilitates adjustment of height of the podium (telescopic type adjustment) in line with the height of the user. Both the products were widely appreciated for their innovative thought and design.
- M.Des and B.Tech students undergone internship / higher studies at Nagaoka University, Japan
- Ms. Abinaya J.L received Rs. 10 lakhs/ annum offer from Startsmart Labs during campus placements.
- Mr. Sarathi.K received Rs. 10 lakhs/ annum offer from Startsmart Labs during campus placements.
- Ms. Bharati, Mr. Ram Kowshi, Mr. Anand Srivatsan and Mr. Rengapadmathan (I B Tech), Won first place in Ingenium conducted by NIT trichy.
- Mr. Eswar Sai Krishna, Mr. Arvind, Ms. Dheepika and Mr. Bharath, participated in IICDC/TIIC
 contest on Smart Bus Transport System and won a cash prize of 25k. The system developed by
 the students provides the exact position of the buses with dynamic estimated time of arrivals including number of seats available in it.
- Mr. Sai Sravan (IV EDM), Mr. Sai Krishna (III EDM), Ms. Dheepika, and Mr. Bharat were one among 55 teams selected nationwide for the semi-finals of Texas Instruments Innovation Challenge Design Contest 2016. Prize money Rs 15,000. (April 2017)



Faculty joined Recently

The following faculty members were recently joined the Institute:



Prof. Jegannathan S as a Visiting Faculty Ph.D (IIT Madras)

Formerly as Professor at Aksaray University, Central Anatolia in Turkey Research Interests:

RF & Microwave Engineering, Electromagnetic fields and waves, Circuits, Signals and Networks



Dr. Shankar Raman M J as a Visiting Faculty PhD (IIT Madras)

Formerly as Project Adviser and Manager—Big Data Initiative at IIT Madras

Research Interests:

Computer networks, network security



Shri Subramanian Swaminathan as a Visiting Faculty Formerly at IIT Delhi

Research Interests:

Manufacturing, Mechanical hardware Design, Manufacturing



Dr. Suresh Varadarajan as a Visiting Faculty

PhD (Marguette University)

Research Interests:

Industrial Internet of things (IIoT)
Supply Chain Planning and Optimization

Information systems for Manufacturing



Venkateshan S P as a Emeritus Professor

PhD(IISc)

Formerly as Emeritus Professor at IIT Madras

Research Interests:

Space Heat Transfer, Inverse Methods in Heat Transfer, Cooling of Electronic Components, Instrumentation

people come,
people go
should we ever Change,
we don't know
one man's loss,
another man's gain
known world still remains known
don't give in,
don't give up
you still have the power to change.

By: Bhargar Nallan Chakravartula EVD 161018

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