

# ANNUAL REPORT 2014-2015



**INDIAN INSTITUTE OF INFORMATION TECHNOLOGY  
DESIGN AND MANUFACTURING, KANCHEEPURAM**

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## Director's Report



It gives me great pleasure in addressing the stakeholders of the institute in relation to the administration, academic and research activities of the institute for the period April 2014 to March 2015.

The year gone by has been a phenomenal one, with major infrastructure expansion cum operationalization of academic and residential facilities. The campus has all the facilities to meet the requirement of a "Green campus" and registered with GRIHA for large area development scheme and all the parameters like solar photo voltaic cell power plant, recycling of STP treated water for flush and horticulture purposes, RO + UV treated safe drinking water supply, extensive horticulture cover for the entire campus have been taken care of.

During this period of report, 500,000 sq. ft. of built up area was dedicated to the campus community. Permanent buildings use latest technology such as motion and day light sensors for the maximum day light usage in order to save energy. The G+6 Academic Complex that comprises digitized lecture halls of various sizes, exhibition halls and laboratory rooms was inaugurated by Shri B S Raghavan, IAS, Former Advisor, United Nations, in July 2014 in the presence of Prof M S Ananth, Chairman, BoG. The digitized lecture halls use eco-friendly technology such as LED lighting and motion sensors.

The Ashwatha Hostel (G+14), with fully furnished rooms built to accommodate about 800 students was dedicated by Dr K Ramasami, Former Secretary, DST, in July 2014. The Dining Hall Akshaya (G+3), with a seating capacity of 2000 students was also made ready for the students of the Institute and was inaugurated by Shri Michael M6bius, Head - Quality, Ms Daimler I Pvt Ltd, in July 2014. The dining hall has solar steam based cooking equipments, RO+UV water supply and Wi-Fi connectivity. A Green Open Cafeteria is also dedicated to the campus community.



*If you think in terms of a year, plant a seed; if in terms of ten years, plant trees; if in terms of 100 years, teach the people.*

*- by Confucius (BC 551-BC 479)*

Further to successful initiation and establishment of B.Tech programmes in Computer Engineering, Electronics Engineering, Mechanical Engineering and M.Des in Communication Systems, Electronics Systems and Mechanical Systems, the institute ventured into Dual Degree programmes during the period under report. Five year dual degree programmes in Computer Engineering, Signal processing & Communication System Design, VLSI & Electronic System Design, Product Design, Advanced Manufacturing were commenced during 2014. The period also saw the intake of 249 students at the UG and Dual Degrees level, a significant rise compared to the 120 intake in the previous year. Around 45 research publications in reputed journals and conferences have been published by the institute faculty. The MoU with Nagaoka University, Japan was renewed during the period and a joint degree programme is on the anvil in the year(s) ahead.



The Institute Sports contingent has performed exceedingly well at TWARAN 2015, an inter institute sports meet conducted by IIITM Gwalior. I am proud to announce that our institute was placed second as per the overall medals tally with a listing of 5 Gold, 6 silver and 2 bronze medals. One of our students is also adjudged the best player of the tournament in cricket. Further, Shri B Purushothaman (II M.Des. Student) secured Gold Medal in the weightlifting competition conducted by IIT Madras in 2014. Achievements in research and sports make IIITDM Kancheepuram a holistic institute.

During the period 2014-2015, the social service group of IIITDM Kancheepuram has done several social service activities including cleaning the nearby zoo, blood donation, and tree plantation drive. Further, the institute has celebrated birth anniversaries of great leaders like Shri. Sarvepalli Radhakrishnan's as Teachers' day, Shri. Sir Mokshagundam Visvesvarayya's birth day as Engineers' day, Shri. Mahatma Gandhi's birth day as Swachh Bharath Abhiyan, Maulana Abul Kalam Azad's birth day as Nation Education day, Shri. Sardar Vallabhai Patel's birth day as Rashtriya Ekta Diwas, Shri. Atal Bihari Vajpayee's birth day as Good Governance day.

It is my pleasure to inform that the Institute is declared as the Institute for National Importance through IIIT Bill and convened the Second Convocation on 30 Jan 2015. About 200 students were awarded the degree during this Convocation.

Given the committed and dedicated efforts of the students, staff, faculty members, I am confident that the institute will scale even greater heights in the forthcoming years in terms of academic, research, co-curricular and extracurricular activities.

Gnamamoorthy R  
Director

## Vision, Mission and Charter

### VISION

IIITDM is envisioned as an academic institution of excellence that would facilitate and promote the competitive advantage of Indian products and manufacturing in global markets

### MISSION

The Mission of IIITDM is to be a Global Centre of Excellence in Design and Manufacturing Education and Research in the Country.

### CHARTER

- ✧ To provide education and training, at both undergraduate and postgraduate levels, to persons of outstanding abilities who would provide leadership to Indian industry in globally competitive economic environment.
- ✧ To carry out advanced research and development activities in design and manufacturing technologies, both on its own and on sponsorship basis for the industry.
- ✧ To provide distance learning and continuing education programmes for faculty / scholars from other institutions and industry personnel.
- ✧ To organize conferences, seminars, workshops and such other activities for the dissemination of knowledge to industry.



## Board of Governors



### **Prof. M.S Ananth, Chairman**

Former Director, IIT Madras

### **Shri. B.S. Raghavan, IAS (Retd.)**

Author & Educationist  
Former Advisor to UN

### **Prof. Bhaskar Ramamurthi**

Director  
Indian Institute of Technology Madras

### **Shri. T. K. Ramachandran, IAS**

Secretary to Government  
Dept of Information Technology, Govt of TN

### **Lt. Gen (Retd.) K. R. Rao**

PVSM, AVSM, VSM  
Hyderabad

### **Smt. Rina Sonowal Kouli**

Director (ICR)  
Dept. of Higher Education, MHRD, GoI

### **Shri. D.P. Prasad**

Joint Secretary  
Ministry of Commerce & Industry

### **Shri. Krishna G.V. Giri**

Managing Director,  
Management Consulting Health & Public Ser,  
Vice Chairman, Accenture

### **Shri. B. Santhanam**

President - Flat Glass, South Asia,  
Egypt & Managing Director,  
Saint Gobain Glass India

### **Prof. David Koilpillai**

Department of Electrical Engineering  
Indian Institute of Technology Madras

### **Prof S. Narayanan**

Department of Mechanical Engineering  
Indian Institute of Technology Madras

### **Dr. S.S. Mantha**

Chairman  
AICTE

### **Prof R. Gnanamoorthy**

Director  
IIITDM Kancheepuram

## Finance Committee

<b>Prof. M.S Ananth</b> Chairman Former Director, IIT Madras	<b>Prof R. Gnanamoorthy</b> Director IIITDM Kancheepuram
<b>Shri. Rajesh Singh</b> Director (Finance) Dept. of Higher Education, MHRD, Gol	<b>Shri. Alok Mishra</b> Director (IIT and IIITs) Dept. of Higher Education, MHRD, Gol
<b>Prof. S. Narayanan</b> Emeritus Professor IIT Madras	<b>Dr. S Murugiah, (IA &amp; AS Retd.)</b> Former Principal Accountant General PAG, TN
<b>Secretary: Shri. A Chidambaram</b> Deputy Registrar (Accounts) IIITDM, Kancheepuram	

## Building and Works Committee of the Institute

<b>Prof R. Gnanamoorthy, Chairman</b> Director IIITDM, Kancheepuram	<b>Shri. Alok Mishra</b> Director (IIT and IIITs) Dept. of Higher Education, MHRD, Gol
<b>Prof S Narayanan</b> Emeritus Professor Indian Institute of Technology Madras	<b>Shri R Arumugam</b> Superintending Engineer Indian Institute of Technology Madras
<b>Shri Rajeev Sharma</b> Superintending Engineer (Elect) CPWD	<b>Secretary: Shri. A. Manickavasagam</b> Consultant Engineer (Civil), IIITDM Kancheepuram

# Senate

## Prof R Gnanamoorthy

Director, IIITDM Kancheepuram- Chairman

### Prof. S. Narayanan

Emeritus Professor,  
Dept. of Mechanical Engg., IIT Madras

### Prof. S. Santhakumar

Former Professor & Dean  
Dept. of Aerospace Engg., IIT Madras

### Prof.K.Chandrasekaran

Former Professor  
Anna University, Chennai

### Prof. P. Chandramouli

Dept. of Mechanical Engg.,  
IIT Madras

### Prof. Nilesh Vasa, HoD

Dept. of Engineering Design, IIT Madras

### Prof. R. Ramanujam

Institute of Mathematical Sciences, Chennai

### Prof. Harishankar Ramachandran

Dept. of Electrical Engg., IIT Madras

### Prof. Jagadeesh Kumar. V

Dept. of Electrical Engg., IIT Madras

### Prof. Ganesh Sundara Raman. S

Dept. of Metallurgical & Materials Engg.,  
IIT Madras

### Prof. Krishna Vasudevan

Dept. of Electrical Engg.,  
IIT Madras

### Prof. Vijayaraghavan. L

Dept. of Mechanical Engg.,  
IIT Madras

### Prof. Hema A. Murthy

Dept. of Computer Engg.,  
IIT Madras

### Prof. Krishnamoorthy Sivalingam

Dept. of Computer Engg.,  
IIT Madras

### Prof. Raghu Prakash .V

Dept. of Mechanical Engg.,  
IIT Madras

### Prof. K.M.M. Prabhu

Emeritus Professor, Electronics Engg.,  
IIITDM Kancheepuram

### Dr. Masilamani .V

Assistant Professor, Computer Engg.  
IIITDM Kancheepuram

### Dr. P. Damodharan

Assistant Professor, Electronics Engg.  
IIITDM Kancheepuram

### Dr. B. Shahul Hamid Khan

Assistant Professor, Mechanical Engg.  
IIITDM Kancheepuram

### Dr Noor Mahammad .SK

Warden, Boys Hostel  
IIITDM Kancheepuram

### Dr Priyanka Kokil,

Warden, Girls Hostel  
IIITDM Kancheepuram

## Industry Experts

### Dr. Ravikishore .B

HCL Info Systems Pvt. Limited, Chennai

### Dr. C Mathiazhagan

CEO Market I Japan, & MK Tech India

### Dr. M. Sathya Prasad

Ashok Leyland, Chennai

### Shri. Sandeep Ghosh

Head, New Product Development,  
Ms TCS Engineering Services

### Dr. G. Venkatesh, FNAE

Chief Technology and Strategy Officer  
Ms Sasken Communication Tech Ltd

### Dr. Anand Lakshmanan

Senior Manager - Unit Head  
Ms Ericsson India Global Services

## Administrative and Technical Staff



**Prof. R. Gnanamoorthy**  
Director



**Shri. A. Chidambaram**  
Deputy Registrar (Accounts)



**Shri. A. Manickavasagam**  
Consultant Engineer



**Shri. Ravi Kumar G**  
Asst. Registrar



**Shri. P.N. Srinivasan**  
Manager



**Shri. S. Pandiyan**  
Jr. Engineer (Civil)



**Shri. Y. Tejovadan**  
Jr. Suptd.



**Shri. S. Saravanan**  
Jr. Suptd.



**Smt. S. Rajalakshmi**  
Jr. Suptd.



**Kum. G. Subashini**  
Jr. Suptd.



**Shri. R. Parthasarathy**  
Jr. Accountant



**Shri. P. Alaguraj**  
Physical Training



**Shri. S. Karthikeyan**  
Jr. Assistant



**Shri. K. Dinesh Kumar**  
Jr. Assistant



**Shri. P.M. Sriram Bhaskar**  
Jr. Tech. Suptd.



**Shri. K. Saravanakumar**  
Jr. Tech. Suptd.



**Shri. A. Vigneshwaran**  
Jr. Tech. Suptd.



**Smt. K. Manimegalai**  
Jr. Technician



**Shri. G. Manigandan**  
Jr. Technician



**Shri. M. Aswinraj**  
Jr. Technician



**Shri. S. Prabhu**  
Jr. Technician  
(Library)



**Shri. R. Balaji**  
Jr. Attendant



**Shri. A. Vijaya Bharathi**  
Jr. Attendant



**Shri. Senaa Kanian Siva**  
Career Devp. Officer

## New Members of IIITDM Family (2014-15)



**Shri. Gunasekaran .R**  
Dy Registrar (Admn.)



**Shri. Ramkumar .R**  
Junior Engineer



**Shri. Perumal .G**  
Sr Lib Info Asst



**Kum. Pavithra .P**  
Junior Technician



**Kum. Kavitha .P**  
Junior Assistant



**Shri. Venkatesh .G**  
Junior Assistant



**Shri. Dharmarasu .R**  
Junior Technician

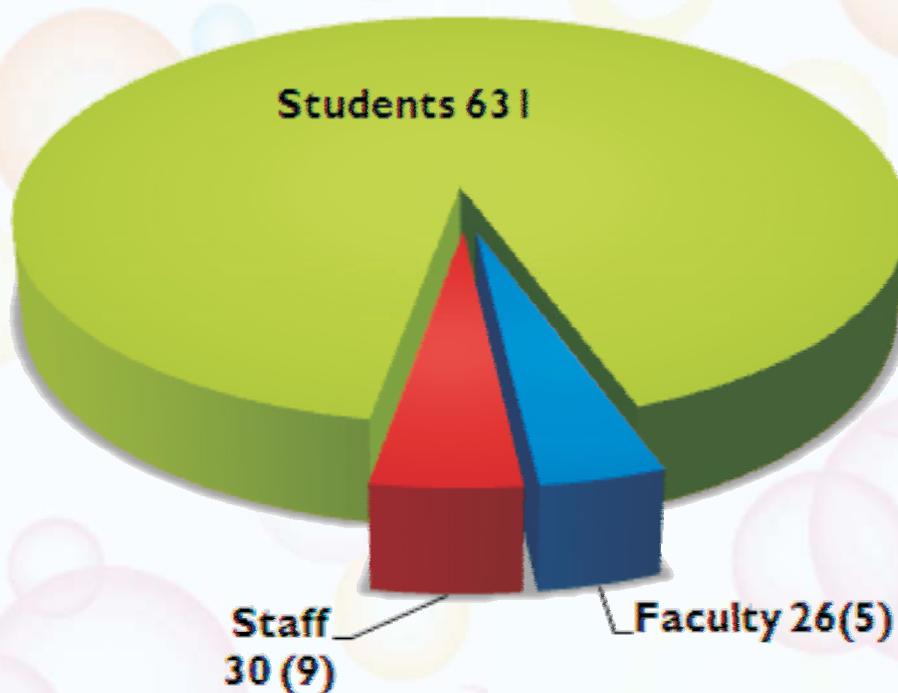


**Shri. Kanagaram .K**  
Junior Technician



**Shri. Anandha Kannan .R**  
Junior Technician

## Student & Staff Statistics for 2014-15



Numbers in parenthesis indicate new employees joined in 2014

## ACADEMICS



*The Value of the College Education is not the learning of many facts but the training of the mind to think,*

*~ Albert Einstein*

## IIIT Bill 2014

The institute was envisioned by the Government of India to excel in manpower creation in the areas of IT and IT enabled Design & Manufacturing, with administrative and academic functions modeled along the lines of Institutes of National Importance (INI) such as IITs, IISERS, and NITs. The status of Institute of National Importance accords autonomy to the institute in framing new programmes of study and their respective curricula in tune to the dynamic demands of the industry sector. Needless to say, for an institute that functions with the unique mandate of excelling in Design and Manufacturing oriented education and research, the status of an INI was all the more crucial for its continued efforts in realizing the unique mandate. Further to the efforts of the Ministry of Human Resource Development under the aegis of Hon'ble Smt. Smriti Irani the long pending IIIT Bill was introduced in the winter session of the parliament (Nov 2014) and was passed with unanimous support in both the houses. Hon'ble members of the parliament endorsed the need for the Bill and such design institute(s) unequivocally, and were also specific in raising relevant areas of pedagogy / research to the institute such as Information & cyber Security. The passage of the Bill is an important milestone in the history of the institute, and would go a long way in providing the required administrative and academic autonomy for the creation of novel IT & IT enabled Design & Manufacturing focused engineering programmes. This augurs well towards the Make in India campaign of the Union Government, which aims at transforming India into a Design & Manufacturing hub. Four IIITs at Allahabad, Gwalior, Jabalpur and Kancheepuram are covered under the ambit of the Bill with respective unique mandate to excel in the identified thrust areas.

INDIA  
TODAY • IN

### Parliament passes IIIT bill, first on education by Modi government



HRD Minister Smriti Irani

Any decision on education policy will be in tune with constitution, Human Resources Development Minister Smriti Irani said Monday as Parliament passed a bill to bring four institutes of information technology under the ambit of a single authority.

The Indian Institutes of Information and Technology (IIIT) Bill, 2014, passed by Rajya Sabha on Monday, seeks to provide the four existing IIITs an independent statutory status and proposes to declare them as institutes of national importance to enable them to grant degrees to their students, an IANS report stated.

The bill, passed by Lok Sabha last week, is the first education bill passed by the Narendra Modi government.

Moving the bill for passage, Irani assured the house that any decision on education policy by government will be in ambit of the constitution.

"Some members asked if the education policy decisions by government will be influenced by my own thought. I would like to assure members any decision by government will be within the ambit of constitution," she said.

Irani also called it a "golden moment" saying MPs from "left, right and center" came together for the education bill.

"I am feeling proud... the message is clear, there is no politics in education," she said.

The four institutes are IIIT-Allahabad, IIIT-Gwalior, IIIT Design and Manufacturing, Jabalpur and IIIT Design and Manufacturing, Kancheepuram.

### Indian Institutes of Information and Technology Bill gets Parliament nod

11/11/2014 08:02PM IST

Tags: The Bill | Smriti Irani | Jabalpur | Indian Institutes of Information and Technology | hr minister

NEW DELHI: A bill to bring four institutes of information technology under the ambit of a single authority and help students get degrees was today passed by Parliament.

The Indian Institutes of Information and Technology (IIIT) Bill, 2014, was passed by Rajya Sabha by a voice vote. It had received the Lok Sabha's nod on November 25.



HRD Minister Smriti Irani said students passing from these institutes will now get degrees and the government would make all efforts to attract the best of faculties.

She in particular referred to the agonies of the students of IIIT Kancheepuram who were awaiting their degrees since 2009 due to non-passage of legislations governing IIITs.

Allaying apprehensions, she said the reservation policy will also be applicable to the IIITs in student admission and in recruitment of teaching and non-teaching staff.

Replying to members' comments on the autonomy of these institutes, Irani said, "The governance structure of these institutes will be like that of the IITs and NITs which were based on the Central Universities Act as passed by Parliament."

The passage of the bill gives the four institutes -- IIIT-Allahabad, IIIT-Gwalior, IIIT Design and Manufacturing Jabalpur and IIIT Design and Manufacturing Kancheepuram -- the status of 'institutes of national importance'.

The Act will give these institutions independent status with uniform policy framework.

The declaration of the IIITs as institutions of national importance is being initiated with a view to providing manpower of global standards for the information technology industry.

Irani made it clear that these institutes will be "autonomous" and UGC role will be to only notify the nomenclature of the courses.

## Second Convocation



IIITDM Kancheepuram convened its Second Convocation on Friday, the 30th January, 2015 and the first in the Institute's permanent campus, after the institute being declared as an Institute of National Importance through the IIIT Bill 2014. Distinguished Chief guest Dr. Baldev Raj, Director, National Institute of Advanced Sciences, and Chairman, IIT Gandhinagar and NIT Puducherry, graced the occasion and delivered the Convocation Address. Prof M S Ananth, Chairman, Board of Governors and former Director IIT Madras presided over the ceremony.



In the convocation ceremony, the Director of the Institute Prof R Gnanamoorthy awarded degrees to 159 B.Tech and 60 M.Des graduates. The accolades to the winners were awarded by the Chief Guest.

### DETAILS OF AWARD OF DEGREES (UG & PG)

Graduated Year	B. Tech (UG)	M. Des (PG)
2012	56	16
2013	53	15
2014	50	29
<b>Total</b>	<b>159</b>	<b>60</b>

## Details of Prize Winners (UG)

B.Tech (UG)			
Awards	2012	2013	2014
<b>Institute Merit</b>	 <b>POOJA K KUMAR</b> DM08B039	 <b>K ILAMBHARATHI</b> COE09B008	 <b>NANDITA BHASKHAR</b> EDM10B009
<b>Best Outgoing Student</b>	 <b>G VISHWANATH</b> DM08B044	 <b>S SUGANTH KRISHNA</b> COE09B017	 <b>SOWMYA JAIN</b> COE10B015
<b>COE</b>	—	 <b>NIVEDITHA R</b> COE09B015	 <b>RAMESHKRISHNAN P.S</b> COE10B013
<b>Best Project Award EDM</b>	 <b>DEEPAK S</b> DM08B015	 <b>PRAVEEN SAHU</b> EDM09B010	 <b>NANDITA BHASKHAR</b> EDM10B009
<b>MDM</b>	 <b>S GANGA PRASATH</b> DM08B017	 <b>S K SWAPNA</b> MDM09B015	 <b>NADELLA HEMARAJESH</b> MDM10B018

## Details of Prize Winners (PG)

<b>M.Des (PG)</b>			
<b>Awards</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
<b>Institute Merit</b>			
	<b>P K SUMITHA</b> EDS10M009	<b>GANESH KAILAS</b> EDS11M002	<b>PRABHU T</b> CDS12M005
<b>CDS</b>	—	—	 <b>SAGARIKA MOHANTY</b> CDS12M007
<b>Best Project Award EDS</b>			
	<b>P K SUMITHA</b> EDS10M009	<b>KANAPARTHI V PHANI KUMAR</b> EDS11M004	<b>S VIPPIN CHANDHAR</b> EDS12M011
<b>MDS</b>			
	<b>BALAVENKATESH R</b> MDS10M001	<b>S N KEERTHI SAGAR</b> MDS11M003	<b>Y USHA</b> MDS12M010

## Design-Centric Academic Programs

Management

Interdisciplinary  
Knowledge

Design  
Concepts

Core  
Engineering

Basic Sciences

Education is vital for the growth of any country. It takes ages to make a nation into a developed country and a prosperous one; this cannot be achieved without formal education. A famous quote by Nelson Mandela says “Education is the most powerful weapon which you can use to change the world” therefore the Government’s vision to create a centre of excellence in design and manufacturing is a timely action.

In today’s date “IT enabled Design and Manufacturing” has become a new craze among the industrial technocrats. Degrees focused on Design and Manufacturing is the preferred choice by the individuals who wish to fulfil the role of a design and manufacturing engineer. Design, Manufacturing, and Product Development is an integral part of the each degree programme in the institute, it satisfies two key criteria: it has a significant societal impact, and it offers significant intellectual challenges:

- **Societal impact** - Engineering’s primary value to society is its ability to deliver products and solutions that improve quality of life. Their benefits may include enhanced safety, convenience, cost-effectiveness, usability, functionality, and marketability. The curriculum is enriched with courses which are blend of management and environmental sciences. In addition, students have to design and develop a product/prototype as a part of their course.
- **Intellectual challenges** - For products to be competitive technically, they must incorporate appropriate new technologies and be refined using leading-edge modelling, simulation, and experimental methods. The curriculum imparts strong fundamental knowledge in basic sciences and engineering to the students so that the students can tackle complex design problems.

## Innovative Academic Degrees

### B.Tech.

- Computer Engineering
- Electronics Engineering (D&M)
- Mechanical Engineering (D&M)

### M. Des.

- Communication Systems
- Electronic Systems
- Mechanical Systems

### Dual-Degree

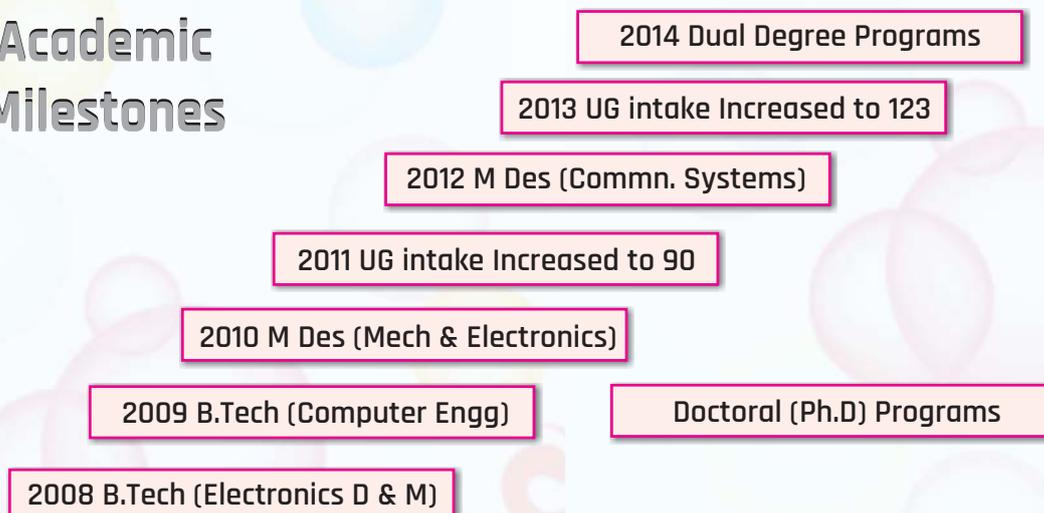
- Computer Engineering
- EDM with Signal Processing & Communication System Design
- EDM with VLSI & Electronic System Design
- MDM with Product Design
- MDM with Advanced Manufacturing

### Ph.D.

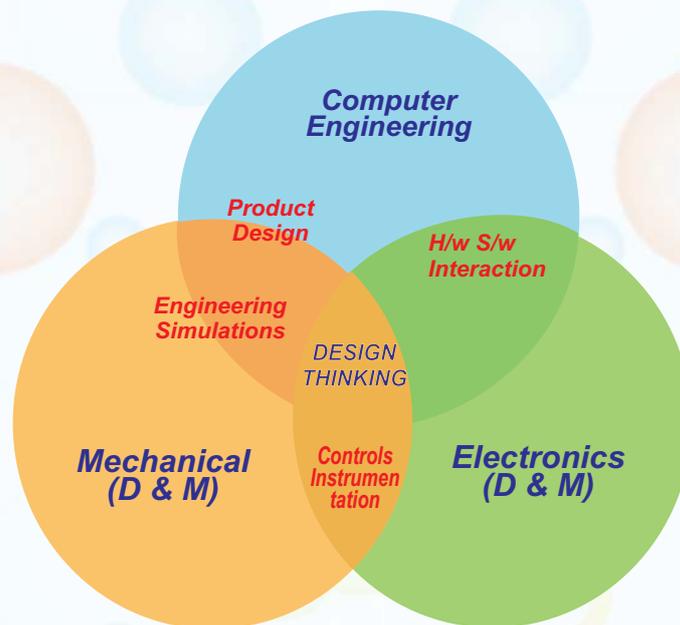
- Computer Engg.
- Electronics Engg.
- Mechanical Engg.
- Mathematics
- Physics

The conventional degree programmes offered in many universities in India are based on theoretical analysis of the industrial problems. On the other hand, industries require hands-on experience/practical skills to solve the problem which is lacking in the present curriculum of the many universities. IITDM Kancheepuram functions with the vision of developing engineers with design and manufacturing skills. The institute gives significant amount of emphasis for practice courses and theory concepts are explored along with the relevant laboratory course. In concise, the motto of the institute is "Learning by Doing".

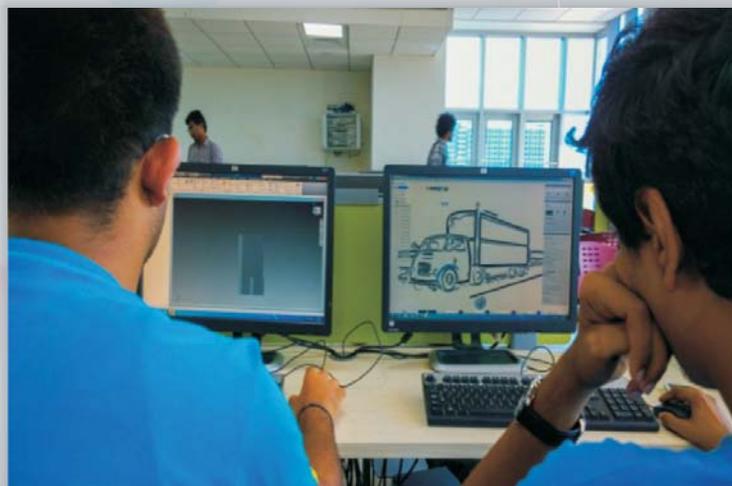
## Academic Milestones



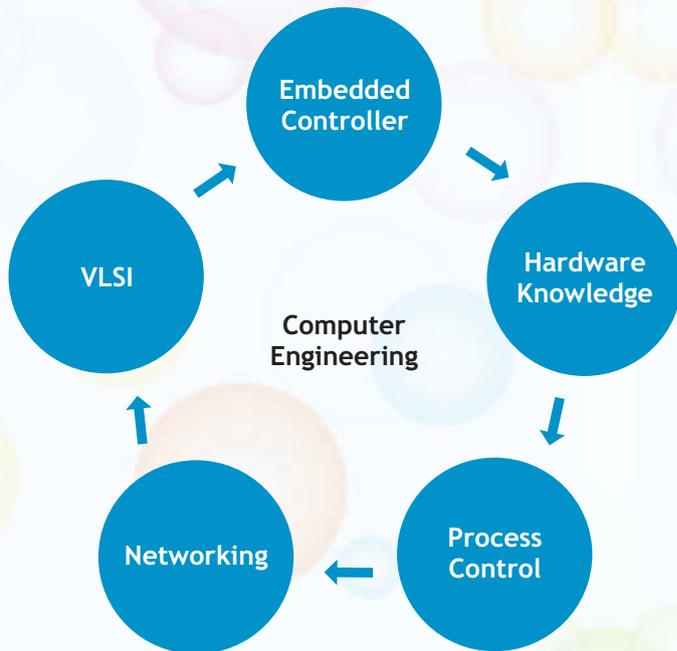
In the academic year 2014-2015, IIITDM Kancheepuram has introduced five novel dual-degree programmes which were approved by BoG. Institute has introduced a flexible five year integrated dual-degrees in which the student obtains both B.Tech. and M.Tech. degrees together on successful completion of the programme. In the novel flexible dual-degrees, at the end of third year, students can pursue their choice of specialization leading to the master's degree. In addition, these novel programs have several new flavours including five months industry internship, design project, product/prototype development etc. Choosing other viable courses other than the traditional ones has become a trend which is changing the face of education today.



## Innovative Interdisciplinary Curricula



# Computer Engineering



## Programme Offered

- B.Tech (COE)
- Dual Degree (B.Tech+M.Tech) on Computer Engineering

IITDM Computer Engineers are equipped with electronics and Computer Science skills required for Intelligent Product Design

## Faculty



**Masilamani V** (Ph.D IIT Madras)  
Assistant Professor  
Research Interests: Image Processing, Computer Vision, Data Structures and Algorithms

**Noor Mahammad SK** (Ph.D IIT Madras)

Assistant Professor  
Research Interests: Reconfigurable computing, Software for VLSI Design, Evolvable Hardware, Open Flow Networks, Software Designed Radio.



**Sadagopan N** (Ph.D IIT Madras)  
Assistant Professor  
Research Interests: Graph Theory, Combinatorics, Data Structures and Algorithms, Computer Networks, Database Systems.

**Sivaselvan B** (Ph.D NIT Trichy)

Assistant Professor  
Research Interests: Knowledge and Data Engineering, Human Computer Interaction



**Umarani Jayaraman** (Ph.D IIT Kanpur)  
Assistant Professor  
Research Interests: Knowledge and Data Engineering, Human Computer Interaction

# Electronics Engineering

## Faculty



**Prabhu K M M** (Ph.D IIT Madras)  
Professor - Emeritus  
Research Interests: Digital Signal Processing



**Premkumar K** (Ph.D IISc Bangalore)  
Assistant Professor  
Research Interests: Scheduling in Networks  
Social Networks, Internet of Things, Big Data Analytics



**Binsu J Kailath** (Ph.D IIT Madras)  
Assistant Professor  
Research Interests: Micro Electronics and MEMS Modelling Technology



**Priyanka Kokil** (Ph.D NIT Allahabad)  
Assistant Professor  
Research Interests: Nonlinear,  
Delayed Multidimensional Systems



**Damodharan P** (Ph.D IIT Madras)  
Assistant Professor  
Research Interests: Power Electronics and Drives



**Selvajothi K** (Ph.D IIT Madras)  
Assistant Professor  
Research Interests: Power Electronics and Drives,  
FPGA, DSP control algorithms



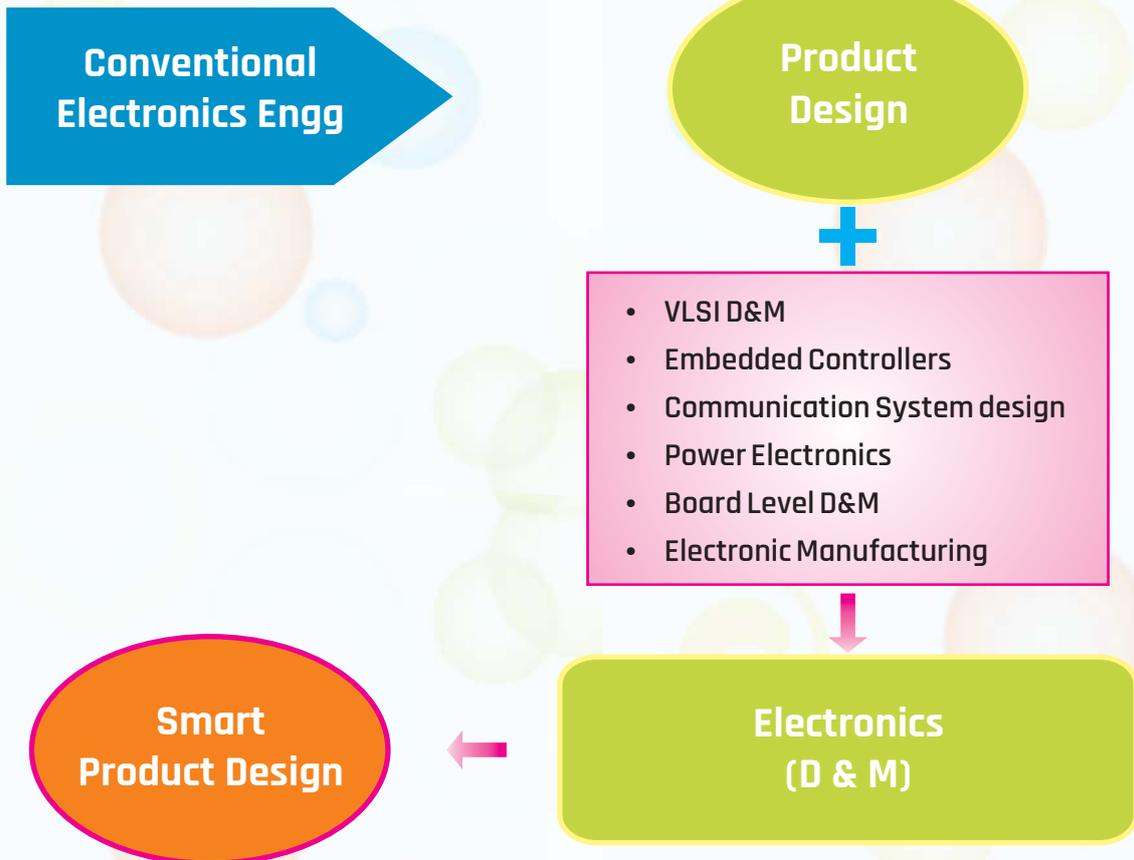
**Karthikeyan S S** (Ph.D IIT Guwahati)  
Assistant Professor  
Research Interests: Microwave Passive Devices,  
Microstrip Antennas, Meta Materials



**Selvaraj M D** (Ph.D IIT Delhi)  
Assistant Professor  
Research Interests: Wireless Communications,  
Digital Communication over Fading Channels.

## Programme Offered

- B.Tech. (EDM)
- Dual Degree (B.Tech+M.Tech.)
  - EDM with Signal processing & Communication System Design
  - EDM with VLSI & Electronic System Design
- M.Des. (CDS)
- M.Des. (EDS)
- Ph.D. Degree



## Some Hardware and Software Facilities

- |                      |                           |                 |
|----------------------|---------------------------|-----------------|
| • Altera             | • $\mu$ - Processor       | • MATLAB        |
| • DSK6713            | • TI DSP Board            | • PSPICE        |
| • MSO & DSO Lecroy   | • MSP430                  | • CC-Studio 3.3 |
| • Tektronix          | • NI Elvis                | • IAR System    |
| • AFG Tektronix      | • Spartan 3E              | • MASM          |
| • Fibre Optica       | • Vector Network Analyzer | • iVerilog      |
| • Wi Com T           | • PCB Prototyping Cadence | • IntelliSuite  |
| • LAN Trainer        | • Xilinx                  | • TCAD Synopsys |
| • Mechatronics       | • LabVIEW                 | • Ansoft HFSS   |
| • $\mu$ - Controller | • Altera                  | • AWR Design    |

# Mechanical Engineering

## Faculty



**Prof Gnanamoorthy R** (Dr Eng Japan)  
Professor & Director  
Research Interests: Mechanical Design and Manufacturing, Surface Engineering



**Raja B** (Ph.D CEG, Anna University)  
Assistant Professor  
Research Interests: Experimental Thermal and Fluid Science, Nanofluids



**Jayabal K** (Ph.D IIT Madras)  
Assistant Professor  
Research Interests: Computational Mechanics Finite Element Methods, Material Modelling



**Senthil Kumaran K** (Ph.D IIT Delhi)  
Assistant Professor  
Research Interests: Additive Manufacturing, Sustainable Manufacturing



**Jayavel S** (Ph.D IIT Madras)  
Assistant Professor  
Research Interests: CFD, Fluid and Thermal Sciences, Heat Transfer



**Shaul Hamid Khan** (Ph.D NIT Trichy)  
Assistant Professor  
Research Interests: Multi Objective Optimization, Supply Chain Management



**Pandithevan P** (Ph.D IIT Guwahati)  
Assistant Professor  
Research Interests: CAD/CAM, Biomimetic Design, Tissue Engineering



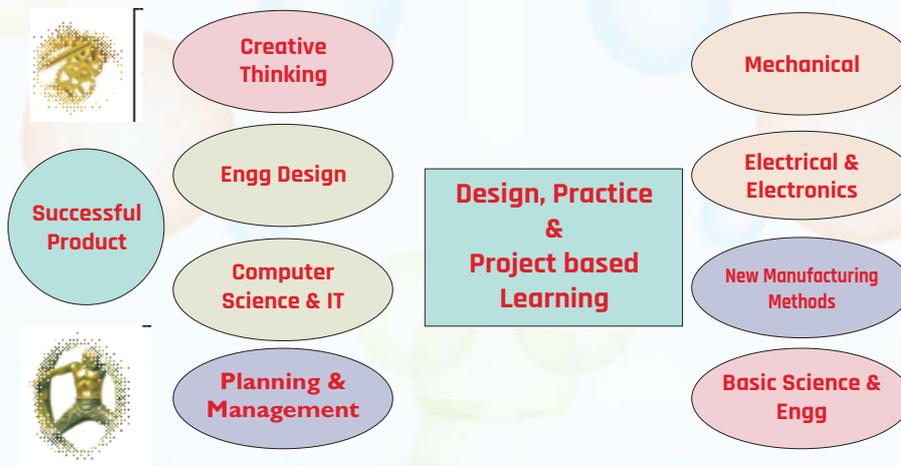
**Sree Kumar M** (Ph.D IIT Madras)  
Assistant Professor  
Research Interests: Robotics, Mechanisms, Smart Materials, Fuzzy Control



**Venkata Timmaraju Mallina** (Ph.D IIT Madras)  
 Assistant Professor  
 Research Interests: Mathematical Modeling of Materials Behavior, Fatigue and Fracture of Engineering materials, Engineering Design with Polymers and Composites



**Gurunathan C** (M Tech IIT Madras)  
 Technical Officer  
 Research Interests: Mechanical Design, Engineering Analysis & Simulations, Materials & Design



## Basic Sciences

### Faculty

#### Physics



**Tapas Sil** (Ph.D Viswa Bharathi University)  
Assistant Professor  
Research Interests: Theoretical Nuclear Physics,  
Quantum Mechanics

**Naveen Kumar Vats** (Ph.D IIT Delhi)  
Assistant Professor  
Research Interests: Fiber Optics,  
Solar Thermal Energy Application



#### Mathematics



**Shalu M A** (Ph.D IIT Madras)  
Assistant Professor  
Research Interests: Graph Theory,  
Coloring Problems, Algorithms

**Vijayakumar S** (Ph.D IIT Madras)  
Assistant Professor  
Research Interests: Computational Complexity,  
Algorithms, Combinatorial Optimization



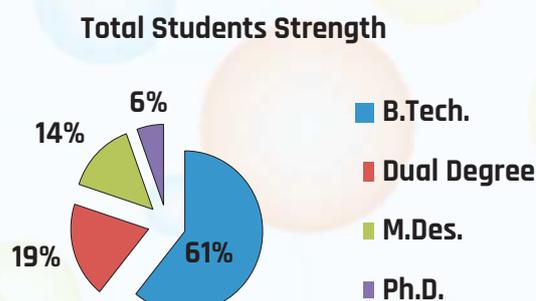
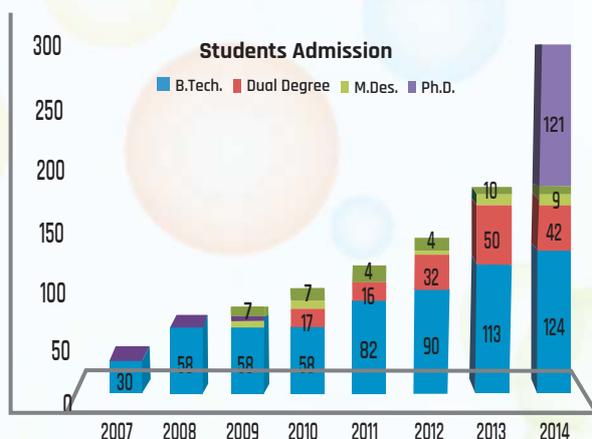
# Students Statistics

## Mode of Admission

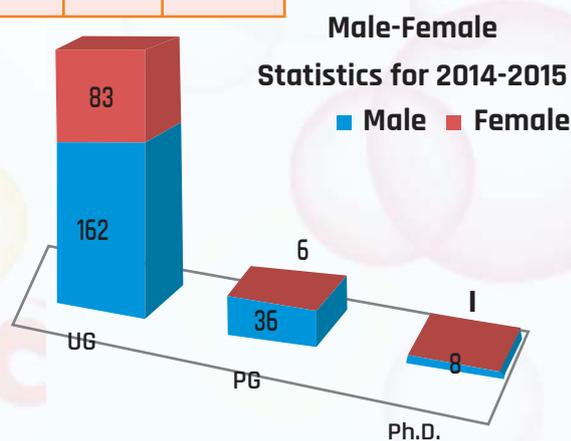
**B.Tech** JEE (Main) and Plus-2 Normalized Score through CSAB for Indian Nationals and through DASA for Indian Origin Foreign Nationals.

**M.Des** GATE, Undergraduate Performance, Written Test and Interview

**Ph.D** Institute Test and Interview



CATEGORY	B. Tech	Dual Degree	M. Des	Ph. D	Total
OP	188	55	55	21	319
OP-PH	5	2	-	-	7
OB	104	31	26	11	172
OB-PH	3	1	-	-	4
SC	50	18	10	3	81
SC-PH	1	-	-	-	1
ST	29	9	-	-	38
ST-PH	-	-	-	-	0
DASA (B.Tech)	4	5	-	-	9
TOTAL	384	121	91	35	631



## Achievement in Sports

### TWARAN 2015

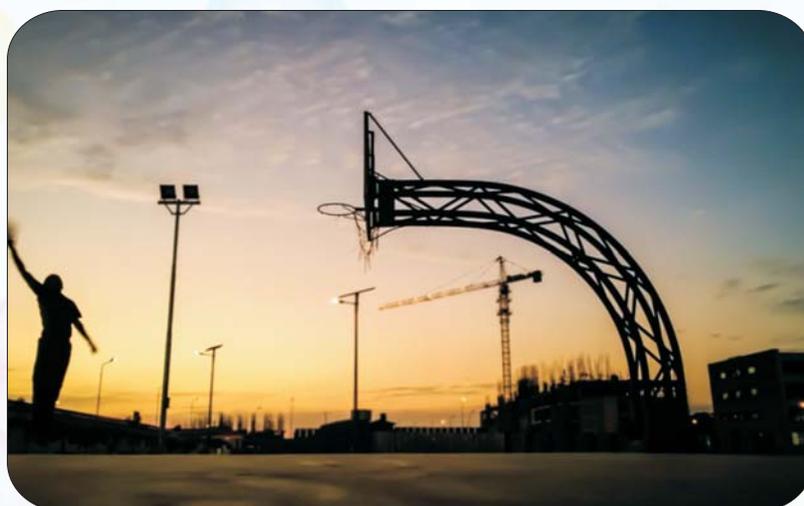
October - December saw the preparations for participation at Twaran 2015 National Level Sports Festival of IIITM Gwalior, Madhya Pradesh during 23-26 January 2015. Various selection trials and practice sessions were conducted by the PTI in coordination with various student coordinators for each sport. Institute participated in Cricket, Athletics (boys and girls), Football, Basketball (Girls and Boys), Table Tennis (Boys and Girls) and Lawn Tennis (Boys), Volleyball (Boys) respectively. Institute stood overall Second (1050 points) with 5 Gold, 6 Silver and 2 Bronze respectively against eight participating teams. The medal tally is as follows.

S.No.	Name	Roll No.	Medal	Game
1	RAMESH S	MDM13B020	GOLD	200 MTS
2	RAMESH S	MDM13B020	SILVER	100 MTS
3	GOURAV PANDEY	MDS13M006	SILVER	400 MTS
4	SUDHANUSHU JAIWAL	CED14I037	SILVER	MARATHON
5	SUDHANUSHU JAIWAL	CED14I037	BRONZE	800 MTS
6	SUDHANUSHU JAIWAL	CED14I037	GOLD	1600 MTS
7	GANTA BINDU	CED14I010	GOLD	200 MTS
8	GANTA BINDU	CED14I010	SILVER	100 MTS
9	AISHWARYA	EDM13B012	SILVER	200 MTS
10	ABINAYA JL	COE13B002	SILVER	400 MTS
11	KRUTHI MANOJNA	COE13B019	BRONZE	800 MTS
12	AISHWARYA	EDM13B012	GOLD	TABLE - TENNIS
13	D.RAVALI	EDM13B006	GOLD	TABLE - TENNIS
14	KRUTHI MANOJNA	COE13B019	GOLD	TABLE - TENNIS
15	GOURAV PANDEY	MDS13M006	GOLD	CRICKET
16	RICKEY RECON DALBEHERA	MDS13M015	GOLD	CRICKET
17	SOLUNKE YOGESH SHRIRAM	CDS14M011	GOLD	CRICKET
18	CHETAN SONI	CDS14M002	GOLD	CRICKET
19	SHASHWAT SHIVAM	COE11B022	GOLD	CRICKET
20	A. VINEEL CHANDRA	MDM11B002	GOLD	CRICKET
21	PAVAN SAIGOPAL	MDM12B006	GOLD	CRICKET
22	SAJJA BALASUBRAMANYAM	COE12B026	GOLD	CRICKET
23	DEVARLA AVINASH	EDM12B010	GOLD	CRICKET
24	SIMMASETTY SOWMITH	COE12B028	GOLD	CRICKET
25	TUPILI SAI MANOJ REDDY	MDM13B033	GOLD	CRICKET
26	RAMESH S	MDM13B020	GOLD	CRICKET
27	PULUGU VAMSI	ESD14I015	GOLD	CRICKET
28	VYAS ADITYA KISHOR	MDM12B028	SILVER	TENNIS
29	YASH MEHTA	MDM14B037	SILVER	TENNIS
30	SRINIVASAN G	CED14I008	SILVER	TENNIS

## IIT Madras Sports Fest 2014

Institute Sports Contingent participated in the Annual Sports Fest organized by IIT Madras in the categories of Cricket, Football, Basket Ball (Men and Women), Table Tennis, Weightlifting.

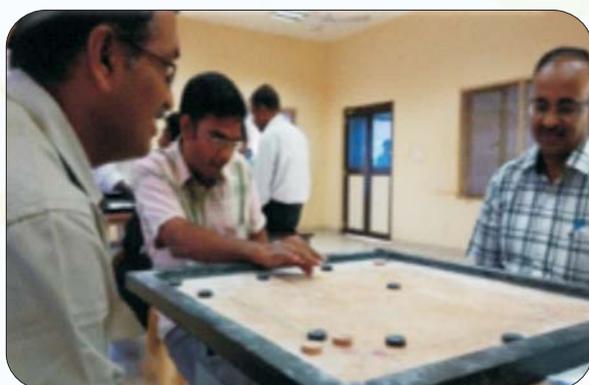
Mr B Purushottaman (II M.Des Student) won GOLD medal in the 69 to 77 KG category and lifted 90 KG in snatch and 120 KG in Clean & Jerk (total of 210 KG).



## Sporting Events for Employees of the Institute

As part of teachers day celebrations sporting events were conducted amongst the staff and faculty members of the institute. Events were in the following categories: Carrom - Singles (Men & Women), Carrom Doubles (Men), Table Tennis - Singles (Men & Women), Table Tennis Doubles (Men), Tennis Singles (Men). The event proved to be a great stress buster and saw serious and active participation by the staff and faculty community. Prizes for winners were distributed on the occasion of Teachers Day 2014 by the external guest Prof. Karmalkar, IIT Madras and Director, IIITDM. The results are as follows:

Event	Winner	Runner
Carrom Singles (Men)	Mr. Dinesh	Mr. A Chidambaram
Carrom Singles (Women)	Ms. Subhashini	Dr. Binsu J Kailath
Carrom Doubles (Men)	Mr. Tejovadan Mr. Aswinraj	Dr. Masilamani Dr. Raja
Tennis Singles (Men)	Mr P Alaguraj (PTI)	Director
Table Tennis Singles (Men)	Mr. P Alaguraj (PTI)	Dr. B. Sivaselvan
Table Tennis Singles (Women)	Dr. Priyanka Kokil	Dr. Binsu Kailath
Table Tennis Doubles (Men)	Mr. Parthasarathy Mr. P. Alaguraj (PTI)	Director Dr. Premkumar



## International Interaction

IIITDM is keen on more internationalization in academics and research. As a part of it, the Institute has signed MoUs with various Institutes and Universities overseas.

The Nagaoka University of Technology, established by Govt of Japan few decades before to enhance the interaction with Japanese Industries has shown interest with IIITDM. Our institute has already two MoUs with NUT and has sent few students as interns to NUT and HITACHI Japan. Many faculty and staff from NUT visited the campus and impressed with the excellent infrastructure.

Prof M Okazaki, Prof Suematsu, Prof Miyashita, Prof Otsuka and others interacted with the Institute faculty. HITACHI Automotive systems in association with NUT expressed interest in offering interns to our students. NUT has also expressed interest in formulating the joint degree programs.

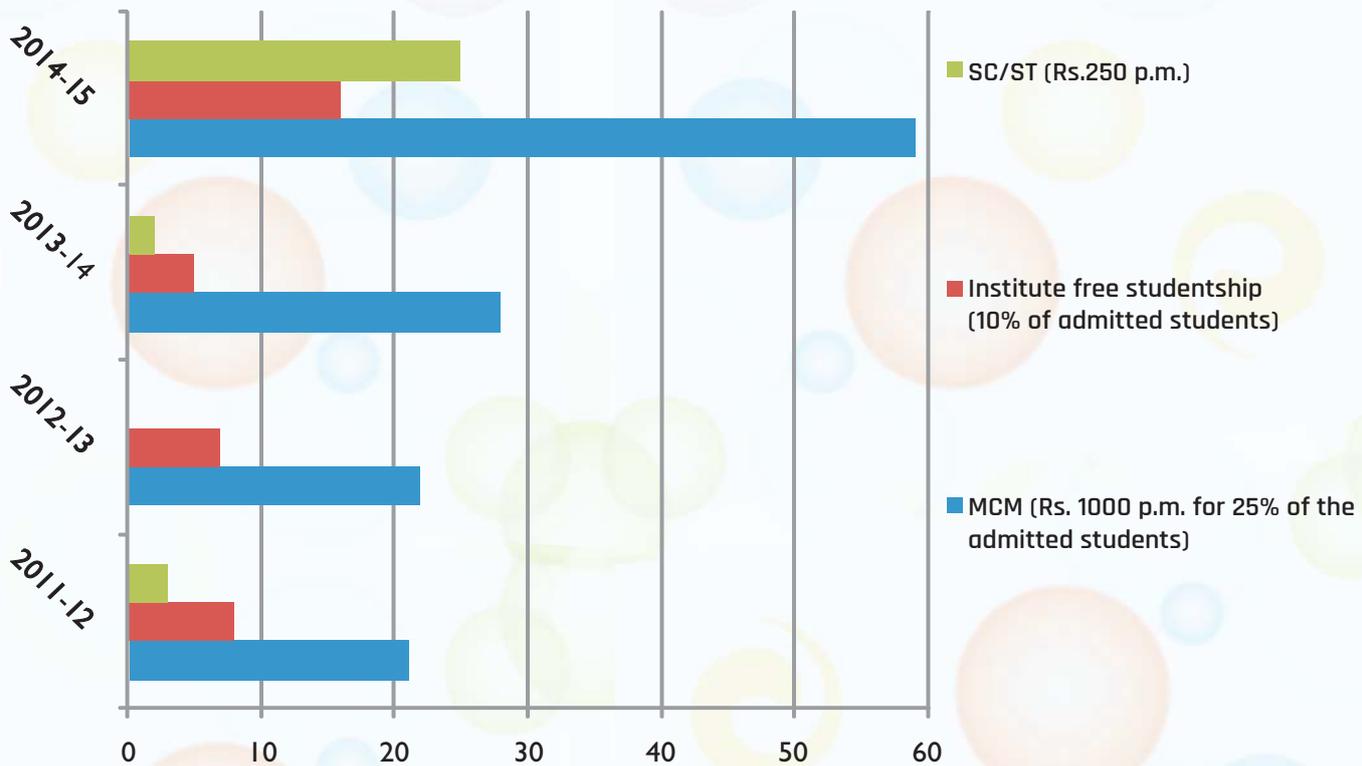
Prof Gnanamoorthy visited the NUT and briefed about the Institute to faculty and students of NUT.

Institute has also MOUs with the following Institutions and many other such programmes are on the anvil.

- The University of Geneva, Italy.
- The University of Catania, Italy.
- HITACHI, Japan.



## Weaker Section Welfare



*Under Central Sector Scholarship of Top Class Education for ST students sanctioned by Ministry of Tribal Affairs, Government of India as on 31.03.2015, nine (9) students have been benefitted.*

*Under Central Sector Scholarship of Top Class Education for SC students sanctioned by Ministry of Social Justice & Empowerment, Government of India as on 31.03.2015, 18 students have been benefitted.*

## Fee Structure

	Particulars	Semester Fee Amount		
		B.Tech	M Des	Ph.D.
<b>A. One time Fees:</b>				
1	Admission fee	150	150	150
2	Grade card/Thesis fee	150	150	950
3	Provisional certificate	100	100	100
4	Student welfare fund	200	200	200
5	Modernisation fee	400	600	600
6	Alumni Life Membership Fee	500	500	500
7	Publication fee (NS)	250	250	250
	<b>Total (A)</b>	<b>1750</b>	<b>1950</b>	<b>2750</b>
<b>B. Semester Fees :</b>				
1	Tuition fee	25000	5000	2500
2	Examination fee	350	350	500
3	Registration-Enrolment	200	300	500
4	Gymkhana	500	500	500
5	Medical fee	500	500	500
6	Student Amenities	2000	2000	2500
	<b>Total (B)</b>	<b>28550</b>	<b>8650</b>	<b>7000</b>
<b>C. Deposits (Refundable):</b>				
1	Hostel Deposit (NS)	1000	1000	1000
2	Institute & Library Deposit	2000	2000	2000
	<b>Total (C)</b>	<b>3000</b>	<b>3000</b>	<b>3000</b>
<b>D. Hostel Fees &amp; Mess Charges per semester</b>				
1	Hostel Admission fee	100	100	100
2	Hostel Seat Rent	500	550	550
3	Fan, Elec. & Water	300	300	300
4	Hostel Maint Charges	6200	6150	6150
5	Advance dining charges	10000	10000	10000
6	Establishment B Charges	500	500	500
	<b>Total (D)</b>	<b>17600</b>	<b>17600</b>	<b>17600</b>
<b>E. Medical Insurance Premium (per annum)</b>				
1	Medical Insur. remium pa	709	709	709
	<b>Total (E)</b>	<b>709</b>	<b>709</b>	<b>709</b>
<b>Hostellers (A+B+C+D+E)</b>		<b>51609</b>	<b>31909</b>	<b>31059</b>
<b>Day Scholars (A+B +C2 +E)</b>		<b>33009</b>	<b>13309</b>	<b>12459</b>

## Infrastructure Developments



*The secret of change is to focus all of your energy,  
not on fighting the old, but on building the new.  
- Socrates*

# Institute Timeline - Permanent Campus



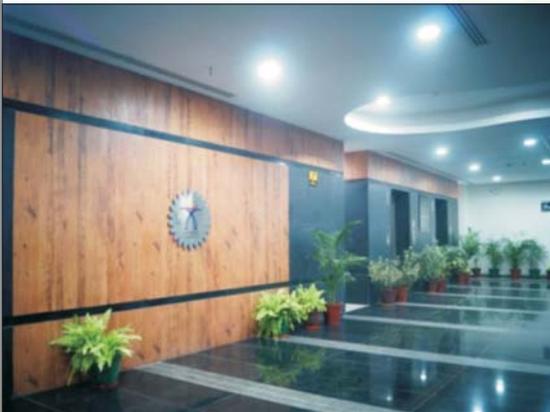
# Infrastructure Timeline - Years Ahead



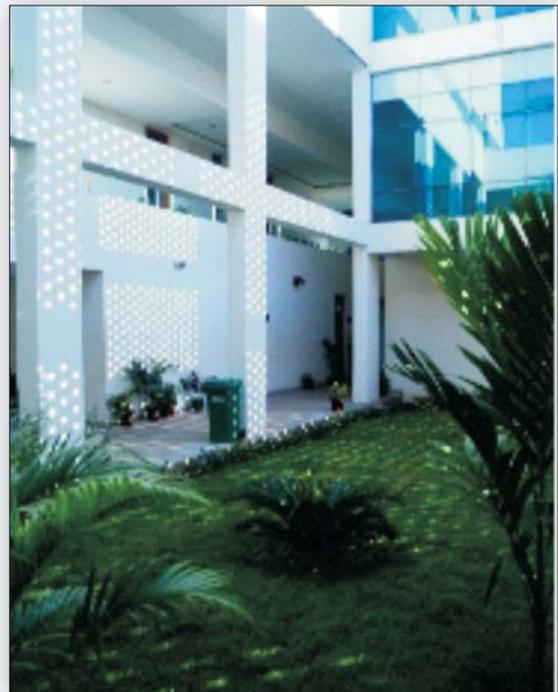
## Administration Building



The complete Institute administration moved to its permanent office which is centrally air-conditioned with variable volume control. The building has the provision for the maximum day light usage, double Glazed Units to reduce heat gain, sensor operated glazed doors, CCTV camera, access controls systems and FIRE alarms for security, Wi-Fi and LAN connections, Centralized RO + UV treated water, Occupational sensors and day light sensors to reduce energy consumption, and sensor control systems for sanitary fixtures to optimize water usage in Rest rooms.



The Administrative block houses academic, accounts, infrastructure, placement, security, and stores and purchase offices. In addition, Director, Registrar and Deans offices are centrally located for effective Institute administration.



## Academic Complex

Inaugurated on July 2014



The state of the art lecture hall complex have (G+6) fully digital 3 numbers of 200 seater lecture halls, 3 numbers of 100 seater lecture halls and 19 numbers of 60 seater lecture halls. In addition, the higher floors consist of 12 laboratories. The Ground Floor also houses Exhibition hall to display the products and research output of campus community. The Lecture Hall complex was dedicated to campus community in July 2014, by Shri B S Raghavan, IAS (Rd), Former Advisor to UN in the presence of Chairman, Prof M S Ananth,

The Lecture halls are connected with the Laboratory complex in every floor for easy movement of faculty and staff between teaching and research facilities.

The lecture halls have LED lighting, day light sensors, WiFi, AV facility. The central lawns and greenery between the lectures halls provides best atmosphere for learning. The lecture halls also have the ducts in place for future centralized air-conditioning.



## Campus New Entrance

The main entrance of the Institute was opened for the campus community in 2014. This entrance serves as the main entrance for the students and employees of the Institute and the existing Entrance B only permits entry to service vehicles of conduction contractors and others. Institute has also opened the third Entrance C in order to claim right over the campus to the western side and will serve as additional entrance in future if required.



## Student Hostel: Ashwatha

The Skyscraper G+14 Boys hostel was inaugurated by Dr T Ramaswami, Former Secretary, DST in July 2014 in the presence of our Chairman, Prof M S Ananth. The unique Features of Hostels are:

Total Number of Beds 703

Optimum day light

Each Room is provided with wardrobes.

Furnished with well designed cot, chair and table

Combination of vitrified and granite flooring to enhance aesthetics and easy maintenance.

Adequate lifts, fire alarm and fire safety provisions.

All the rooms are provided with LAN and common areas with Wi-Fi for effective learning

All sanitary fittings are sensor operated for efficient water management

Continuous supply of RO +UV treated water

Social activity and play areas to enhance interaction among hostel inmates.



## Mega Mess - Akshaya



The centralized cooking and dining facility, Akshaya, was dedicated by Shri Michael, Manager Quality, Ms Daimler India Ltd in July 2014.

- ◆ G+4 construction for Phase-1 designed to the ultimate G+6
- ◆ Centralized dining hall with 1200 seating capacity
- ◆ Fine dining with 50 seating capacity
- ◆ Continuous RO and UV treated drinking water supply
- ◆ Furnished with contemporary Kitchen equipment
- ◆ Solar heated steam cooking technology



## Sports Complex and Sewage Treatment Plant

### Sewage Treatment Plant

A sewage treatment plant of 950 KLD with phase wise planning of electro- mechanical equipment is considered. MBBR units are atomized with programmable logic controllers. Reuse of treated water for flushing, HVAC, horticulture and fire fighting. Sludge is treated with press filters and will be disposed as manure to horticulture.



### Sports Complex (Nearing Completion)

- Basket Ball-1 No.
- Badminton court-2 No,
- Squash court (Doubles)-1 No.
- Squash court (Singles)-1 No.
- Gymnasium-1 No.
- Table tennis room-1 nos.
- Weightlifting Room



## Laboratory Complex: Work in Progress

The giant laboratory block comprising of north wing and south wing (G+6 stories) and a basement to house service utilities with plinth area 36,166 sqm is nearing completion. The laboratory complex will have

- 50 laboratories.
- 6 HOD offices with their supporting staff
- 80 faculty rooms and small discussion rooms
- Seating for 80 Research scholar.
- Library to accommodate one lakhs volume stake area with G+2 storey structure.
- Design studio
- wi-fi and wired LAN data connectivity.
- Provision for central air-conditioning
- Connectivity to academic block.
- Optimum day light (As per GRIHA guidelines)
- Double Glazed Units to reduce heat gain.
- Sensor operated glazed doors
- Adequate lift facility have been provided
- CCTV camera, access controls systems and FIRE alarms for security
- Solar lighting - As an alternate source of energy



## Hostels: Vertical Extension

### Ashoka Hostel

- Additional 9 Floors construction work is expected to be completed by May 2016.
- The facilities and specifications are as that of specification approved as per plinth area norms of Ministry of urban development.
- On completion this will have 401 single rooms, and common facilities.
- The hostel is provided with solar heated hot water, RO+UV treated drinking water, wired LAN facilities.



### Jasmine Hostel

- This hostel has been completed with G+2 stories with structural provision for G+14 stories. Construction of additional 12 floors work is in progress and to be completed by May 2016.
- Facilities and specifications are as per specification approved as per plinth area norms of Ministry of Urban Development.
- The toilets are provided with sanitary napkin incinerators.
- On completion with G+14 it will house 102 double rooms and 242 single rooms thus 446 beds.

## Faculty Housing: Work in Progress

- This will be G+10 story structure with plinth area 36,800sqm
- This will house 80 nos of Quarters with 8 qtrs in each floor (At present 40 qtrs are being taken up in phase-I)
- Combination of vitrified and granite flooring to enhance aesthetics
- The GF will be for parking and services.
- Adequate lifts, fire alarm and fire safety provisions
- Optimum day light
- All the specification to suit GRIHA 4star rating
- The specification and yardstick is as per Plinth area norms of Ministry of Urban development, Gol.



## Amenities

### Medical Facilities

The institute is equipped with a dispensary where all necessary first aid medicines are available. A doctor visits the dispensary every evening. An ambulance van is available in the Institute for 24x7 to meet medical emergency of students. All students are insured under New India Assurance to meet their emergency medical expenses. In addition, regular eye-clinic camps are conducted every year.



### Financial Services

The Institute's financial transactions are done with Indian Bank and an ATM has been commissioned at the entrance of the institute for the benefit of the IIITDM community and for the local population.



In addition, during 2015, a new SBI ATM has been installed in the campus entrance. The new ATM was inaugurated by the Director, Prof R Gnanamoorthy in the presence of Regional Manager of SBI.



Institute also commissioned the new E-collect facility by SBI for online transmission of all types of payments to Institute.

### Convenient Shops

A shopping complex to cater to the day to day needs of the students such as stationariness, bathing items, and snacks items is available in the convenient shop.



There is a night canteen available in the mess to meet the catering needs of the students in the late hours.

## Sports Facilities

The institute is equipped with state-of-art gymnasium, tennis court, cricket and football ground, volley ball ground and basket ball court in addition to the dedicated indoor sports complex which has facilities for playing table tennis, indoor basket ball, badminton, Carom and Chess.



## Institute Library

Library plays an important role to provide quality information and services to the members and committed to support the Institute's mission. The Library uses an automated (Library and Information Management) software KOHA with Integrated RFID Technology. All the registered users can access the Institute library from anywhere within the campus through LAN/WiFi.

The Library has an excellent collection of books, printed journals, magazines, leading newspapers, e-Journals, and softcopy of NPTEL course materials and video contents. The Library maintains a separate collection of reference books. The Library follows the Machine Readable Catalogue (MARC 21) standard for cataloguing and Universal Decimal Classification (UDC) scheme for classification of Library documents.

Institute is one of the core members of Indian National Digital Library in Engineering Sciences and Technology (INDEST) consortium and has subscribed nearly 600 e-journals, conference proceedings, standards, viz IEL (IEEE & IEE) and Elsevier Science Direct Links.

Resources	Numbers
Total No of Books as on 27th March 2015	3589
Total No of books has been purchased last one year (1st April 2013 to 31st March 2014)	710
Journals/Magazines (print version)	29
News Papers	05
CD-ROM/DVDs	362
Theses and Dissertation	97
E-Journals - (Elsevier Science Direct 175 + IEEE Xplore 415)	590
Gratis	83



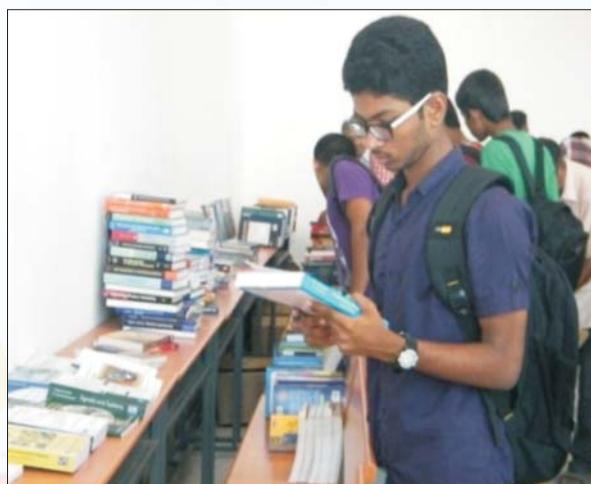
### IEEE User Orientation Programme

Institute Library organized a User Orientation Programme on IEEE Xplore (Online Journals Database) on 6 August 2014 in the Academic Block. Faculty members and several students actively participated in the training programme. Dr. M.D. Selvaraj (Faculty Incharge for Library) welcomed the guest speaker Mr. Rajkumar Mahapatra, Training Manager-GIST, IEEE Client Services. The speaker explained the benefits of using the IEEE database to the students and research scholars, and demonstrated the strategies involved in utilizing the database and recent value added services of IEEE. The session was very interactive and useful to the students.



### Book Fair

The institute library also organized a book fair during 21-23 August 2014 in the academic block. In this event, eight vendors/suppliers participated and displayed titles supported by them. The fair was facilitated by the institute to easy access to textbooks / references to students in generic and fresher admitted in the year 2014.



## Research and Development



*"Research is creating new knowledge."*

*-Neil Armstrong*

## RESEARCH FACILITY

IIITD&M houses high-tech equipments and several in-house developed test facilities to perform cutting edge research. Institute has separate high performance computation facility to perform theoretical/analytical research. IIITD&M Faculties do research in following fields.

### Research Fields:

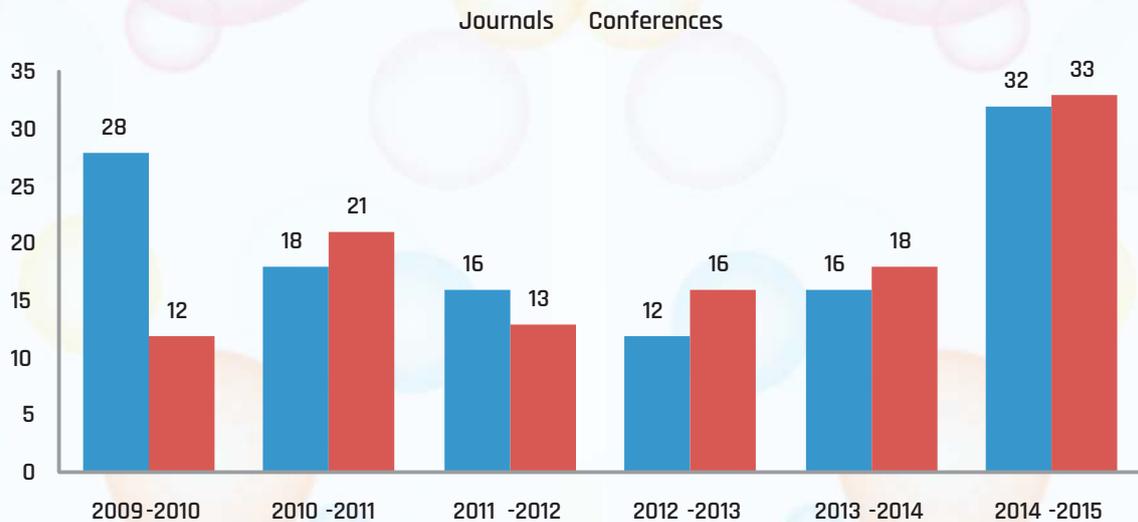
- Manufacturing processes/CAD/CAM/ CAPP/ feature recognition/ CAE
- Alternate Substrates and high-k dielectrics for VLSI MOS
- Permanent magnet Brushless DC and AC Drives
- Bio-mimetic Design & Tissue Engineering
- Image Processing and Computer Vision
- MOS Device Modeling and Technology
- Medical image based Reconstruction
- Solar Thermal Energy Applications
- CAD and Layered Manufacturing
- Renewable energy applications
- Computational Fluid Dynamics
- Algorithms and Data Structure
- Semiconductor Device Physics
- Power Electronics and Drives
- Fluid and Thermal Sciences
- Microwave passive devices
- Reconfigurable Computing
- Computational Geometry
- Software for VLSI design
- Software Defined Radio
- Enhanced heat transfer
- Network-on-chip (NoC)
- Microstrip antennas
- Theory of Computing
- Pattern Recognition
- Evaluable Hardware
- Engineering Design
- RFIC & RF MEMS
- Metamaterials
- Heat Transfer
- Fiber Optics
- Nanofluids
- Robotics
- MEMS



### Research Fields:

- Triba Characteristics of Biomaterials and Polymer Nano Composites
- Fatigue and Fracture mechanics of Advanced Engineering Materials
  - DSP Realization of Control Algorithms in Power Electronics
  - Nanocomposites- Product Design and Manufacturing
  - Engineering the Surfaces for Improved Performance
  - Relativistic Mean Field Theory in Nuclear Structure
    - Digital Communication over Fading Channels
    - Mechanical Design with Advanced Materials
      - Power Electronics, Drives and Control
      - Supersymmetric Quantum Mechanics
      - Smart Materials and Smart Structures
      - Data Structures in Computer Science
        - Graph theory and Combinatorics
        - Data Structures and Algorithms
        - Knowledge & Data Engineering
        - Serial and Parallel Mechanisms
        - Biomimetics and Biomechanics
        - Multi Objective Optimization
        - Combinatorial Optimization
        - Supply Chain Management
        - Surface Nanocrystallization
        - Giant Resonances of Nuclei
        - Computational Complexity
        - Vapour Absorption system
        - Wireless Communications
        - Electronic cooling systems
        - Mobile Communications
        - Properties of Hot Nuclei
        - Compliant Mechanisms
        - Green Communications
        - Thermal measurements
        - Cooperative Diversity
        - FPGA/DSP hardware
          - Metabolic Networks
            - Cognitive Radio
            - Metaheuristics
            - Fuzzy Control
            - Graph Theory
            - Algorithms
            - Robotics

## Publication 2014-2015



C. Gurunathan, R. Gnanamoorthy, and S. Jayavel, "Frictional Heat Generation in Selective Ceramic Reinforced Polymer Composites - Effect of Particle Size", Proc. AIMTDR, 12-14, Dec 2014, IITG, India

Sagar Dolas, Gurunathan C and Gnanamoorthy R, "Life Estimation of Cardiovascular Stents Using Numerical Approach - Effect of Ageing", Proc. ICAD&M, 5-7 Dec 2014, NIT Trichy, India.

C. Gurunathan, R. Gnanamoorthy, S. Jayavel, "Wear Resistance of Polymeric Material with Selective Reinforcement - Effect of Material Combination", Proc. ICEMA 2014, IIT Roorkee, India, 5-6 April 2014.

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## Sponsored Research

Design, Development and Characterization of all-fiber Interferometer for Wavelength Interleaving and Temperature Sensing Applications

**Principal Investigator :** Naveen Kumar

**Sponsor :** DST

**Duration :** 3 years

**Value :** 16.92 Lakhs

Design, development and performance evaluation of enhanced air-cooling in electronic systems.

**Principal Investigator :** S. Jayavel

**Sponsor :** DST

**Duration :** 2 years

**Value :** 15.05 Lakhs

Rural and Remote Ubiquitous Broadband Wireless Access

**Principal Investigator :** M.D.Selvaraj

**Sponsor :** UKIERI

**Duration :** 2 years

**Value :** 20,000 UK Pounds

Development of a Nanofluid Coolant for high heat flux devices with Mini-channel heat Exchanger.

**Principal Investigator :** B.Raja

**Sponsor :** DST

**Duration :** 3 years

**Value :** 12.6 Lakhs

Design and development of energy efficient freeze dryer with multiport mini-channel shelf heat exchanger

**Principal Investigator :** B.Raja

**Sponsor :** SERB-DS

**Duration :** 3 years

**Value :** 26 Lakhs

## Laboratories

The spirit of “Learning by doing” is high in IIITDM as students use state of the art equipments and kits for practice in their laboratories. The institute designs the laboratory experiments through a process of intense brain storming sessions so that the learning outcome of the experiments meet the demand of the industries and the aim of understanding the application of technology in day to day life. Further the feedback of industrial experts are incorporated into our laboratory practice sessions in order to bridge the gap between academia and industrial world.



## Microprocessors and Embedded Controllers Laboratory

The Microprocessors and Embedded Controllers Laboratory of the Institute contains variety of microprocessors, microcontrollers, and FPGA kits along with various digital interfaces, programmers, stepper motors etc. for implementing smart electronic solutions in real-time.

The laboratory is also sufficiently equipped with licensed versions of advanced software viz. RIDE, MASM, Verilog Xilinx WinTalk, WinISP etc. for programing, interfacing and controlling the 8085, 8086, 8051 and Sparten 3E Xilinx boards.

The facilities are also employed for training the UG/PG and Ph. D. students in their respective laboratory/practice sessions and for executing their projects/research activities towards translating the usage of software in controlling the hardware for automation .



## Electronic Circuits Laboratory

The Electronic Circuits Laboratory of the Institute provides the state of art facilities for designing, implementing and testing various electronic components/circuits and devices. Various licensed software viz. NI Lab View (Multisim) etc. are also available for simulating innovative electronic circuits before its realization of printed copper boards/ Bread boards. The high quality Agilent/Lecroy make digital oscilloscopes (200 MHz/ 2Gs), function generators (20 GHz), variable power supply, multimeters, Bread Boards, electronic components available for training the UG/PG students to learn the basic electronic principles of designing and implementing rectifiers, amplifiers, oscillators, filters, clippers, clampers, voltage regulators, transistor biasing arrangements in their respective practice sessions. The facility is also accessible to all students of the Institute for carrying out their project/ research work during off hours of the Institute.



## EMIC and Communication Laboratory

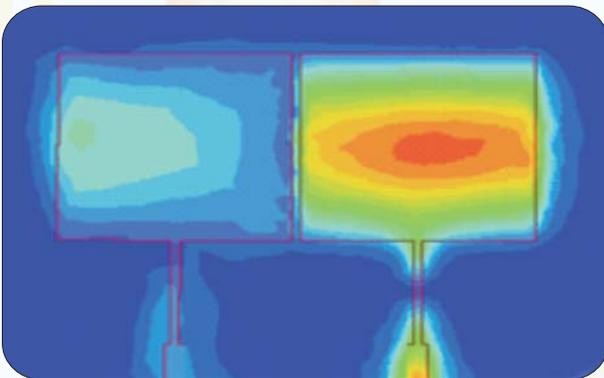
The EMIC and Communication Laboratory of the Institute provides the state of the art facilities for conducting experiments on Electromagnetic Interference, Microwave Communication, and Digital Communications. Current facilities include an EMI/EMC hardware kit (consisting of an EMI source module and an EM coupling module), and workstations equipped with MATLAB and Simulink packages.

The focus of the lab is on learning basic principles in Microwave and Wireless Communications as well as system level simulations. The current research activities include system level simulation of MIMO wireless, and cooperative diversity systems.

## RF Circuit Design Laboratory

The RF circuit design laboratory at the Institute is motivated to work towards the design and analysis of microwave circuits and components for RF/Microwave and millimeter wave applications including antennas. Current facilities include Microwave test benches, Network analyser, MIC trainer and workstations equipped with AWR Microwave Office, Ansys Designer and Ansys HFSS.

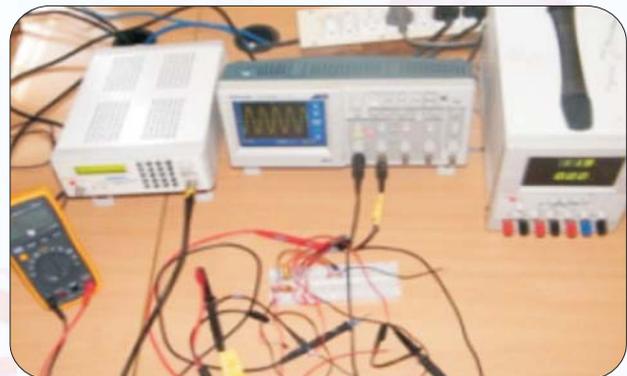
The focus of the lab is on learning basic principles in Microwave and RF Communications as well as system level simulations. The current research activities include design and development of performance enhanced power dividers, antennas and microwave sensors.



## Digital Logic Design Laboratory

The Digital Logic Design Laboratory of the Institute provides both the knowledge and skills required to design digital circuits and formalism of logic enabling students to analyze logical processes. Current facilities include Digital trainer Kit, IC tester, NI Multisim.

The goal of the lab is concerned with application oriented design and practical real world problem solving by digital techniques. The current research activities include design of consumer electronics.



## Robotics and Automation Laboratory

This Laboratory provides hands-on experience in design, development, mathematical modeling, simulation and experimental validation of various robot mechanisms and automation devices such as PLC operated pneumatic circuits. It also includes study of forward / inverse kinematics and dynamic analysis of mechanisms using specialized software such as ADAMS.

Current facilities include: ABB Industrial Robot, Robot kit with servo actuators, PLC based electro -Pneumatics, Multipurpose Carrombot with Vision Guided Multifunctional Capabilities and Mobile Robots. The focus of the lab is to provide hands on experience in the design and development of various robotic and automation systems.



## Applied Thermal Engineering Laboratory

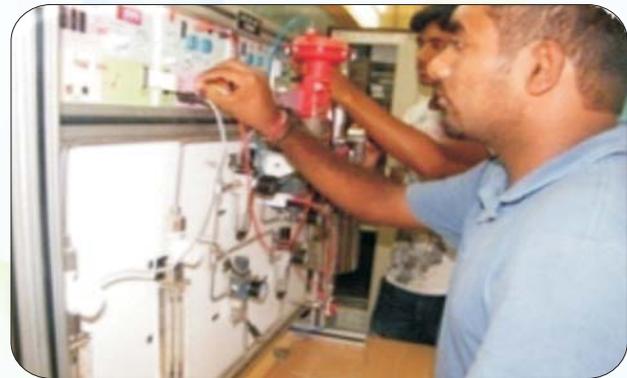
This laboratory is to help students to gain practical knowledge in design techniques concerning applied thermal-fluid dynamics, heat transfer, thermal engineering and refrigeration techniques etc. A variety of experiments are conducted in the lab, which covers the basic heat transfer, fluid mechanics and applied thermal engineering theory courses practically.

Students take up the research work related to boiling heat transfer enhancement, mini and macro channel, flow visualization, porous media heat transfer, electronic cooling devices, thermal measurement, computational fluid dynamics, novel cooling techniques, miniaturized heat exchangers, freeze drying, vacuum cooling, rubber heaters, nanofluids etc. Students use the lab also for product development and testing of the same.



## Control Engineering Laboratory

The Control Engineering Laboratory of the Institute is a basic interdisciplinary laboratory exploring students of 4th semester to model various dynamic systems and design controllers for a closed loop systems. Current facilities include softwares like MATLAB and LabVIEW. Physical systems like Quancer Inverted Pendulum, Quancer DC motor Control, and MIMO systems are available. NI ELVIS II board is utilized to interphase analog and digital systems to develop closed loop control. The current research activities include implementation of digital controllers using FPGA, micro controller or DSP processors for electrical power applications, Medical applications, automobiles, electric vehicles etc.



## Precision Manufacturing and Metrology Laboratory

This laboratory provides hands-on experience with industrial-grade CNC machines. Students gain knowledge in writing CNC programmes, generation of codes, execution of these tasks for turning and milling operations and inspection of machined parts. Also included is a 3D printing machine capable of converting a 3D CAD model in to a prototype. Current facilities include 3D Digital printer, CNC machines, besides conventional machines and sophisticated metrology equipments such as CMM and Video Microscope.

The current research activities in this lab includes manufacturing process and system simulation, process planning, production planning and manufacturability analysis and manufacturing automation.



## Software Engineering Laboratory

The objective of this lab is two fold. As part of Software Engineering students are expected to learn how to write Software Requirements Specifications as per IEEE format, software design using UML (Class Diagram, Use case diagram), and how to write technical documentation as per industry standard (function call-tree, class-object diagrams). As part of Database systems, students are exposed to ER diagrams, SQL queries. A mini-project using PHP and MySql is also proposed.

On the research front, implementation of Database design Algorithms and its analysis are done. SQL query optimization and minimization are also explored. Study on emerging trends like data mining, data warehousing , indexing are also done. The resources available are 30 Dell T1600 Workstations, Red Hat Enterprise Linux 5, Mysql, php, umbrella.



## Simulation and Modelling Laboratory

Initial phase of the simulation exercises include introduction to Scilab, Scilab programming for Curve fitting and Root finding. Second phase includes simulation of Finite Automata, Push Down Automata and Turing Machines. Final phase includes simulation of a networking protocol, namely, sliding-window protocol. Modelling and simulation of Layer-2 protocols are explored. Impact of approximation ratio on special graph classes are explored through simulation for classical problems like Vertex cover, Steiner tree, etc., Simulation of parallel Algorithms for bi-connectivity augmentation was explored.

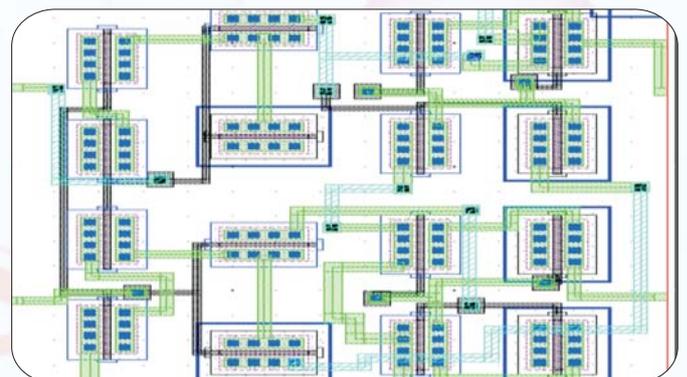
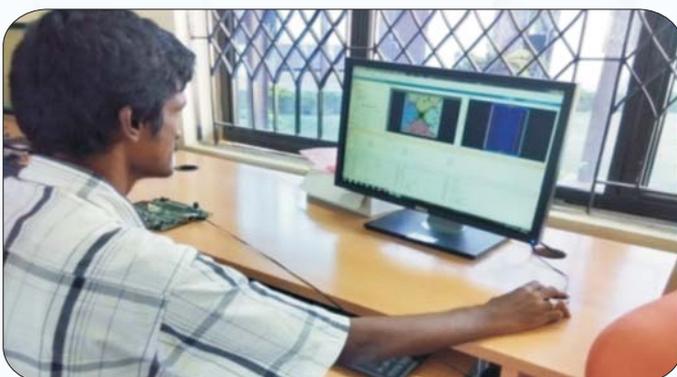
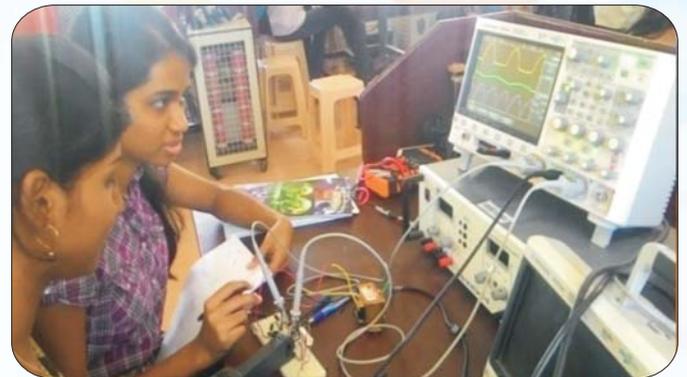
## Human Computer Interaction Laboratory

The course is a higher semester Interaction Design Principles course and focuses on design principles in the context of software development. Cognitive issues involved in interface design, user support systems, evaluation that enhance usability of apps is explored. HCI concepts such as primality, recency, 7+2 rule, CAPTHCAs, Loading Bars, etc. related to application software development are test driven. Experiments that highlight the keyboard layout, mental models & its violation, Fitts Law simulation, GOMS model, web usability / Accessible & Universal Design principles are explored using applications such as loading bar / progress bar design. HCI Lab Annex supporting 35 Dell & HP Systems - IDE (Integrated Development Environment) for Software Design & Implementation hosts the lab sessions. B.Tech projects such as frameworks (quantitative & qualitative) for design / evaluation of loading bars, CAPTCHAs, search engines etc. are carried out as an extension to the concepts covered by the course.

## VLSI Design Practice Laboratory

The VLSI Design Lab equipped with advanced EDA tools and sophisticated development platform to foster strong digital and analog design environment. FPGA prototyping using Xilinx Spartan 3E (22), Altera DE1 (6) and DE2 (4) supported by Altera subscription edition (10 licenses) provides comprehensive methodology for hardware design. Cadence university Bundle full suite (30 license) enables full custom analog and digital IC Designs.

Notable Ongoing Research topics includes PLL Design, High speed Multipliers design, High performance DSP Architectures, FPGA based Power converters and Reversible logic circuits.



## Other Key Laboratories

Apart from the laboratories mentioned previously, each stream has a list of key laboratories with state of art equipment. They are:

### ❖ Computer engineering

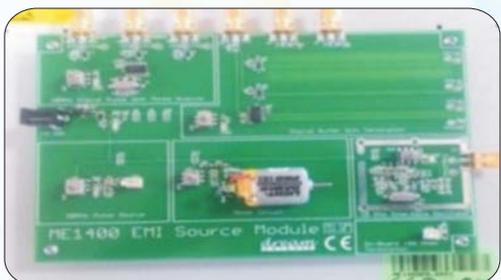
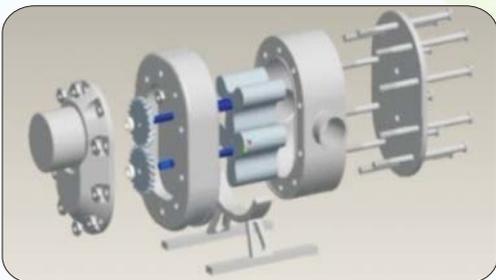
- Data Structures & Algorithms
- Compiler Design
- Object Oriented Programming
- Scripting Languages Laboratory
- Computer Organization Laboratory
- Computer Organization & Microprocessor Lab
- Operating Systems Laboratory
- Computer Architecture Laboratory
- Computational Engineering Laboratory
- Electrical and Electronics Engineering
- Electrical Drives Laboratory
- Electromechanical Energy Conversion Laboratory
- Principles of Measurement Laboratory
- Networks and Systems Laboratory
- Analog IC and DSP Laboratory
- Data Networks Laboratory
- Control Engineering Practice Laboratory
- Electronic Instrumentation Laboratory

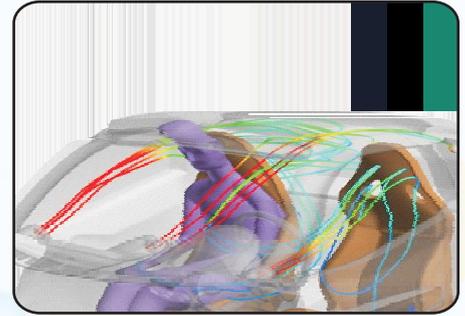
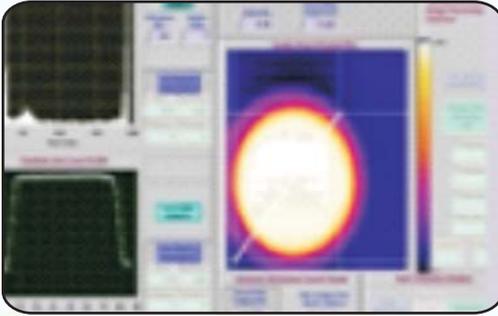
### ❖ Mechanical Engineering

- Machine Drawing Laboratory
- Mechanics & Materials Laboratory
- Applied Mechanics Laboratory
- Measurements and Data Analysis
- Product Design and Practice
- Product Design Practice and Prototyping
- Design Realization Lab
- Product Conceptualization and Visualization



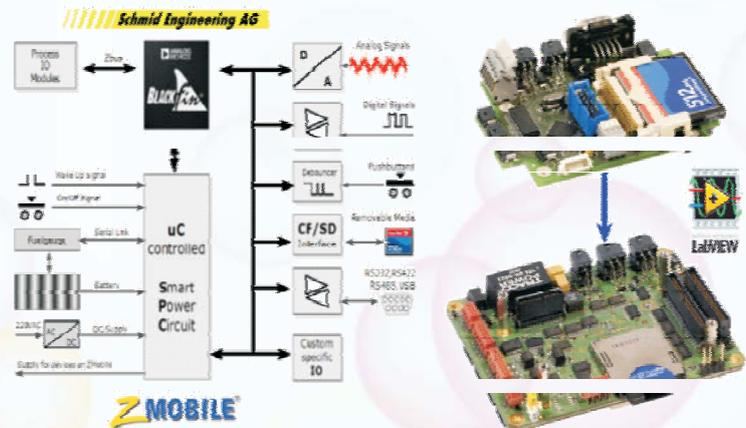
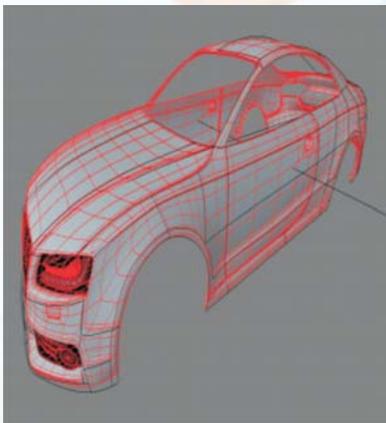
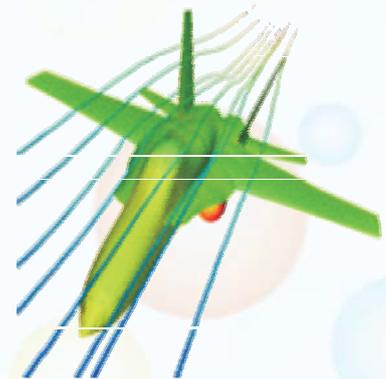
# A Glimpse of Lab Facilities





## Virtual Reality

Training in engineering modeling, analysis and simulation software enables students to visualize real life situations.



## Workshops 2014-2015

A one day workshop on Fiber Interferometric and its applications was organized on December 19th 2014. 25 participants inclusive of members from the industry and academia attended the workshop. Experts from IIT Madras, Prof Balaji and Prof Nilesh Vasa, conducted sessions on fiber gratings based devices for communications and sensing applications. M/s Eagle Photonics conducted a demonstration session of educational fiber optic kits developed by the company. The workshop was well attended and received by the audience. The workshop was jointly organized by Dr Naveen Kumar Vats and Dr Priyanka Kokil.



A One day UKIERI (UK-India Education and Research Initiative) sponsored workshop on "Recent Research Trends in Signal Processing and Communication" was organized by Dr Priyanka Kokil and Dr M D Selvaraj on Oct 11, 2014.



# IIITDM Diaspora Abroad



*About 30%  
pursue higher  
studies!!*



UNIVERSITY of  
WASHINGTON



國立交通大學  
National Chiao Tung University



CHALMERS  
UNIVERSITY OF TECHNOLOGY



MICHIGAN STATE  
UNIVERSITY



Masdar Inst of Sci and Tech,  
Abu Dhabi, UAE

# Student Placements



Cognizant  
Technology  
Solutions



TATA CONSULTANCY SERVICES



HHV PUMPS  
Vacuum Technology Solutions and Services



APOLLO TYRES LTD.

Tech  
Mahindra



Mu Signal



*About 70% are placed in industries*

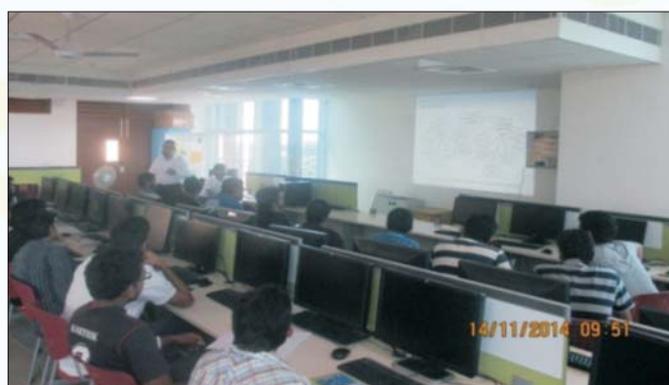
## Guest Lectures

Speaker	Title	Month & Year
<b>Dr. Chester Rebeiro</b> , Assistant Professor, IIT Madras	Secure Coding Practices	March 2015
<b>Mr. T. Jayaraman</b> CEO SECO, Chennai	The Transition of Engineering Student/graduate to being an Engineer	February 2015
<b>Dr.N. Sudha</b> Senior Engineer XMOS Semiconductors, Chennai.	XMOS Multicore Microcontrollers - Architecture and Programing	February 2015
<b>Prof. A. Alphones</b> , Programme Coordinator (Research), School of EEE, Nanyang Technological University, Singapore	Emerging Broadband Technologies of Optical Wireless Communications	November 2014
<b>Mr. Shankar and Mr. Sathiya</b> Polaris Design Center, Chennai	Software Design and Development at Polaris Design Centre	October 2014
<b>Prof. Chandra Roychoudhary</b> Research Professor University of Connecticut, USA.	Significance of Optics and Photonics	September 2014
<b>Dr Ravikishore</b> , M/s HCL Info systems Ltd.	Futuristic Views on Product and Development	July 2014
<b>Dr. G Venkatesh</b> , CEO Sasken Technologies & Adjunct Faculty IIT Madras	Satellite Radios	July 2014
<b>Prof Monica</b> Polytechnico Di Milano, Italy Expert in Design and Human computer Interface	Human-Computer Interaction	April 2014



## Invited Lectures by Institute Faculty

Speaker	Title	Month & Year	Place
<b>Dr.N.Sadagopan</b>	Lecture Series on Graphs and Combinations	March 2015	NIT Trichy
<b>Dr.N.Sadagopan</b>	Lecture Series on Graphs and Combinations	February 2015	NIT Trichy
<b>Dr. S. Jayavel</b>	Parallel Robots and Mechanisms in Manufacturing & Smart Materials and Compliant Mechanisms-Overview	October 2014	CEG, Anna University Chennai
<b>Dr. N. Sadagopan</b>	Beyond Sequential Computations - Towards Parallel Algorithms	December 2014	VIT Chennai
<b>Dr Priyanka Kokil</b>	Effects of Finite Word length in Digital Filters	October 2014	Sri Venkateswara College of Engineering, Sri Perumbudur
<b>Dr M Sreekumar</b>	Parallel Robots and Mechanisms in Manufacturing & Smart Materials and Compliant Mechanisms-Overview	October 2014	CEG, Anna University Chennai
<b>Dr. M.D.Selvaraj</b>	Green Communication	August 2014	Sathyabama University, Chennai.



## Products Developed by Students

This Product Design Practice and Prototyping is a group activity where students from Electronics and Mechanical Engineering jointly work towards the development of a product. The students makes their own design and develop a product which is low-cost, eco friendly and marketable.

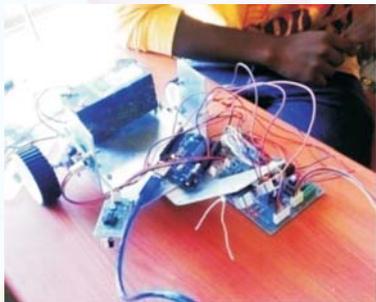
### Energy Utilization from Waste Cooking Gas



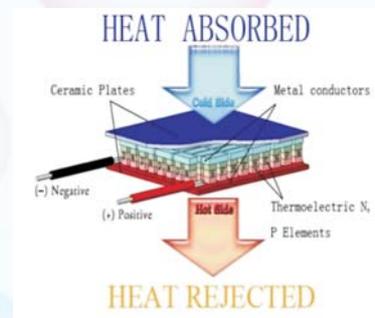
### Reconfigurable Origamic Bag



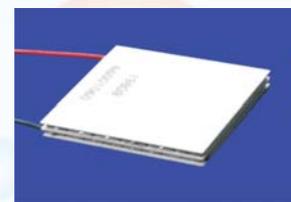
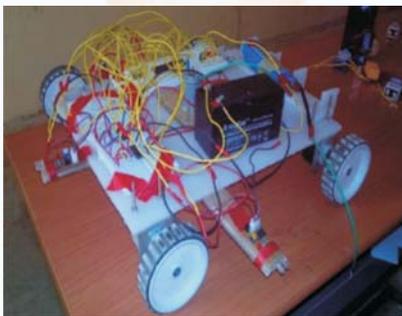
**Road Intelligent and Safety Equipment**



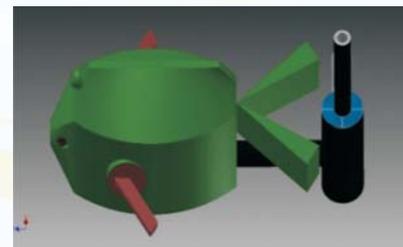
**Air Humidity to Water Converter**



**Farm Automation Bot**



**Under Water Robot**



**Emergency tent**



**Temperature controlling valve**



**Bleater**



**Pickle Salt Meter**



## Contributions to Society



*“Not all of us can do great things.  
But we can do small things with great love.”*

*By Mother Teresa*

## Zoo Cleaning

Members of the SSG cell visited the Vandalur Zoo as part of a cleaning drive. Dr. Manimozhi, the Zoo biologist, explained the nature of work undertaken by the Zoo to the student volunteers of the Institute. The volunteers did a commendable work supporting the group's effort in gathering plastic waste in and around the zoo. The drive developed a sense of concern and care for nature amongst the volunteers and also developed a sense of dignity in the volunteers in keeping their surroundings clean. It also made them aware of how small actions can have a great impact on the nature and humanity.



## Blood Donation Camp and Tree Plantation Drive

### Blood Donation

A blood donation camp was organized in our institute in collaboration with Lion's Blood Bank on 18th September 2014 and faculty, staff members and students have enthusiastically participated. 84 units of blood were collected and all donors were given certificates of appreciation.



### Tree Plantation

To make the campus greener, all members of the institute actively participated in the tree plantation drive.



## Institute Celebration

### Cultural Group Activities



*Celebration is a splendid word. Life itself is a celebration. It is loaded with emotions and dynamism. And when celebration comes in the form of a festivity, all worries and sorrows begin to fade away. Blessed are the people who can involve themselves in any celebration and have fun.*

## Independence Day

The 68th Independence day of the country was celebrated with fervor and enthusiasm. Director of the Institute hoisted the tri-colour at the Administration Block and briefed the gathering on the importance of utilizing the values of independence in the right direction. Speeches, patriotic songs, dance performances were given by the music and dance club members of the institute, and served as an excellent atmosphere to kindle the patriotic thoughts. Given that the event was close to the start of the academic year, a cricket match between Employees (Staff and Faculty members) and students of the institute was organized on the day. It was a 10 over contest and courtesy lot of sporting gestures extended by the student community, the employees team managed to win the match in the last over. The event served as a great opportunity for older (bit) versus youth to rub shoulders and break the ice.



## Teachers' Day

An important day as that of 5th September for an academic institute saw the celebration of the day in a joyful and in an enriching manner. Prof. Karmalkar, Electrical Engineering (IIT Madras), a renowned teacher was invited to address the institute faculty members. The talk was an informative, enriching and practical one. Faculty members interacted with the expert on the cognitive aspect to the teaching - learning process, and the take away slogan from the talk - It is not about teaching diverse subjects, but teaching subjects in a diverse manner! As part of the teachers day celebrations, sports events were organized during Sep 1-3 2014 for staff and faculty members of the institute. Events were in the following categories: Carrom - Singles (Men & Women), Carrom Doubles (Men), Table Tennis - Singles (Men & Women), Table Tennis Doubles (Men), Tennis Singles (Men). The event proved to be a great stress buster and saw serious and active participation by the staff and faculty community. Prizes for winners were distributed on the occasion of Teachers Day 2014 by the external guest Prof. Karmalkar, IIT Madras and Director, IIITD&M. This was a first in IIITD&M's archives and we are confident of many more in the years ahead.





**Indian Institute of Information Technology,  
Design and Manufacturing Kancheepuram,  
Chennai-600127**  
*(An Autonomous Institution under MHRD, Govt. of India)*

*A teacher's purpose is not to create students in his own image, but to develop students who can create their own image!*



We cordially invite you for the  
**TEACHERS' DAY-2014**

**Welcome Address**  
Prof. R. Gnanamoorthy  
Director, IIITD&M Kancheepuram

**Chief Guest**  
Prof. S. Karmalkar  
Professor  
Department of Electrical Engineering  
Indian Institute of Technology Madras

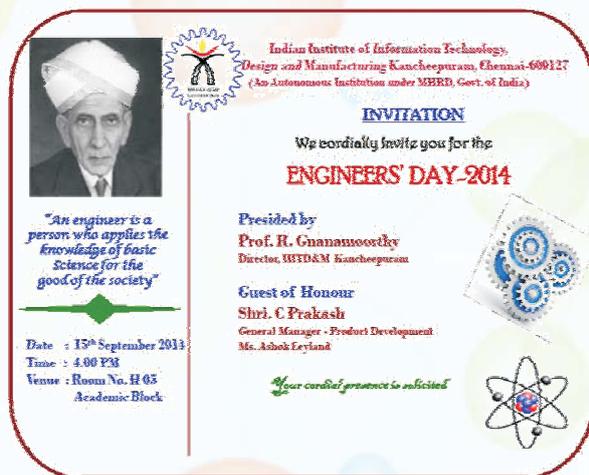
**Vote of Thanks**  
Dr. S. S. Karthikeyan  
Assistant Professor, IIITD&M Kancheepuram

**Date** : 5<sup>th</sup> September 2014  
**Time** : 3.00 PM  
**Venue** : Room No. H05  
Academic Block  
IIITD&M Kancheepuram

*Your cordial presence is solicited*

## Engineers' Day

Celebrated in memory of Sir Mokshagundam Visvesvarayya who had contributed to the field of hydel energy in India and for his contributions to the public good, a technical session was organized on 21.09.2014 at IIITD&M Kancheepuram. Shri. C Prakash, General Manager - Product Development, M/s Ashok Leyland was the chief guest for the programme. The chief guest in his keynote address stated the industry expectations from young engineers. Prof. R. Gnanamoorthy, Director of IIITD&M Kancheepuram presided over the function.



Indian Institute of Information Technology,  
Design and Manufacturing Kancheepuram, Chennai-600127  
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**INVITATION**

We cordially invite you for the  
**ENGINEERS' DAY-2014**

Presided by  
**Prof. R. Gnanamoorthy**  
Director, IIITD&M Kancheepuram

Guest of Honour  
**Shri. C Prakash**  
General Manager - Product Development,  
M/s. Ashok Leyland

*Your cordial presence is solicited*

*"An engineer is a person who applies the knowledge of basic Science for the good of the society"*

Date : 15<sup>th</sup> September 2014  
Time : 4.00 PM  
Venue : Room No. H 03  
Academic Block



## Swachh Bharath Abhiyan

As part of the Gandhi Jayanthi celebrations and as per the MHRD directions, the Swachh Bharat Abhiyan activity was initiated in the institute on 2nd October 2014. The day saw enthusiastic participation from students, staff and faculty members in the cleansing drive within the campus. Administration, Academic, Hostel zones and Cafeteria area were taken up for the cleansing drive. The day ended with an oath administered by the Director on the need for and involvement of every citizen's role in a Cleaner India. Competitions highlighting the theme of Clean India such as elocution, drawings were organized for neighbourhood school students. The clean India campaign would be undertaken by the institute with sustained vigor and shall see further activities in the ensuing academic year.



# School Children Participating in Clean India Movement Competitions



## National Education Day

National Education Day commemorates the birth anniversary of Maulana Abul Kalam Azad, the first education minister of independent India, who served from 15 August 1947 until 2 February 1958. National Education Day of India is celebrated on 11 November every year in our country. Jawaharlal Nehru referred to him as Mir-i-Karwan (the caravan leader), "a very brave and gallant gentleman, a finished product of the culture that, in these days, pertains to few". "The Emperor of learning" remarked Mahatma Gandhi about Azad counting him as "a person of the calibre of Plato, Aristotle and Pythagoras".



On that day, the faculty members shared their views on the significance of quality education and its role on the upliftment of the society.



Indian Institute of Information Technology, Design and Manufacturing, Kanchiipuram, Chennai-600127  
(An Autonomous Institution under MHRD, Govt. of India)

We cordially invite you for the

### National Education Day

Celebrations



*Your cordial presence is solicited*

*'Education imparted by heart can bring revolution in the society'*

Date : 11-11-2014  
Time : 4.00 PM  
Venue : Room No. H05  
Academic Block



## Shikshit Bharath Saksham Bharath (International Students Day)

As part of the various activities planned by MHRD on the occasion of International Students Day, an open discussion forum involving students, staff and faculty members deliberated various aspects that impact the education of school and college students in India. The brain storming session was very interactive and informative and touched on the real issues that impact the literacy rate of the country. The best student speakers from the event would be nominated by the institute to represent their views on improving the education system at national / international events.



**Indian Institute of Information Technology, Design and  
Manufacturing Kancheepuram, Chennai-600127**  
(An Autonomous Institute for under MHRD, Govt. of India)

**International Students' Day**

*Discussion on*

**“Shikshit Bharath, Saksham Bharat”  
– Quality Education for All**

**17.11.2014**



## Rashtriya Ekta Diwa (National Unity Day)

Inline with the Government's decision to celebrate 31st October as National Unity Day, the institute conducted a series of events to commemorate the birth anniversary of Shri Sardar Vallabhai Patel. A Unity Run was conducted covering the periphery of the 50 acre campus (approximate distance of the run 2 kms) and was flagged off by the Director. The event saw active and enthusiastic participation from the IIITDM community. Top 3 positions were awarded in the Male and Female category across students, staff and faculty members, in line with the motto of a unity day. A cultural event involving singing, dance and oratory was also conducted and the students came up with a brilliant performance, despite the short span of time for preparation. Director addressed the audience highlighting the contributions made by the first home minister of India and distributed awards / mementoes to students who had secured positions in the unity run / cultural events.



## Good Governance Day

Responsiveness, transparency, and accountability are the important pillars of Good Governance. It can be effectively achieved through the active participation of every citizen of India. The technology has become a key role player in delivering good governance. Technology today has become a powerful tool of citizens to make them feel self content and justified. To create awareness on good governance, MHRD has declared the birth anniversary of Atal Bihari Vajpayee, former Prime Minister of India as Good Governance Day. In connection with this IIITDM Kancheepuram observed the Good Governance Day on 24.12.2014. The celebration started with the welcome address by the Director Prof. R. Gnanamoorthy. In his welcome address he mentioned that the effective utilization of technology is very much important for the academic institutions growth. Also he pointed out that innovative and simple technology is essential to bridge the gap between the common man and the government. Chief Guest Mrs. Rajashree Natarajan, Chief Operating Officer, Cognizant Foundation, delivered the informative and inspiring talk on "Technology in Governance". She mentioned various case studies pertaining to common man are greatly simplified due to technological advances in all sectors. She also highlighted how technology changed the perception of things – human centred learning to machine learning. After her motivational speech, the oratory competition was organized. Large number of students and enthusiastic staff and faculty members have actively participated in the competition and presented their spectacular ideas regarding the use of technology and innovation for promoting good governance.



## Hindi Diwas

Institute celebrated the Hindi Diwas during 14. to 29 Sep. 2014 with commencement of Hindi Pakhawara on Sept. 14, 2014. Competitions on Essay writing, Synonym, Sulekh (Hand writing), and debate were organized for Students, faculty and staff. Winners were felicitated by the chief guest, Prof. Dr. Sirivuri Venkata Satya Sanyasi Narayana Raju (Additional Registrar, Dakshina Bharat Hindi Prachar Sabha, Chennai) during the special award ceremony held on Sept. 30, 2014.



## Republic Day

Being the largest democratic republic in the world is a hard won gift. It is essential to let the younger generations of India know the importance of being a citizen of the largest republic and reminisce the doyens who fought in a civilized way to gain it. We celebrated the republic day for the above said cause in the presence of the faculty and student community of IIITDM with our Director hoisting the National flag every year.



## Campus Layout



- ❖ State of the Art 50 Acre Campus
- ❖ Energy Efficient GRIHA Ready
- ❖ Smart Digital Class Rooms
- ❖ Modern Laboratory Equipment
- ❖ Disable Friendly & WiFi enabled

Located at outskirts of Chennai and about 40 km from airport

### Contact

**Prof. R. Gnanamoorthy**, Director  
IIITDM Kancheepuram, Melakottaiyur Village,  
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Telephone : 044-27476302 Email : [gmoorthy@iiitdm.ac.in](mailto:gmoorthy@iiitdm.ac.in)