

**IIITDM
Kancheepuram
presents**

MARG DARSHAN

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- “Just as iron has to be heated to red hot temperature before it can be forged into something useful so also you will have to undergo many experiences. This will enable you to draw appropriate lessons for the future challenges. I have no doubt, you will face the challenges successfully and will convert your knowledge, your skills and your dreams into action”. Chief Guest, Shri. V. K. Viswanathan, Chairman, Bosch Ltd., Bengaluru

CONVOCAATION—2016

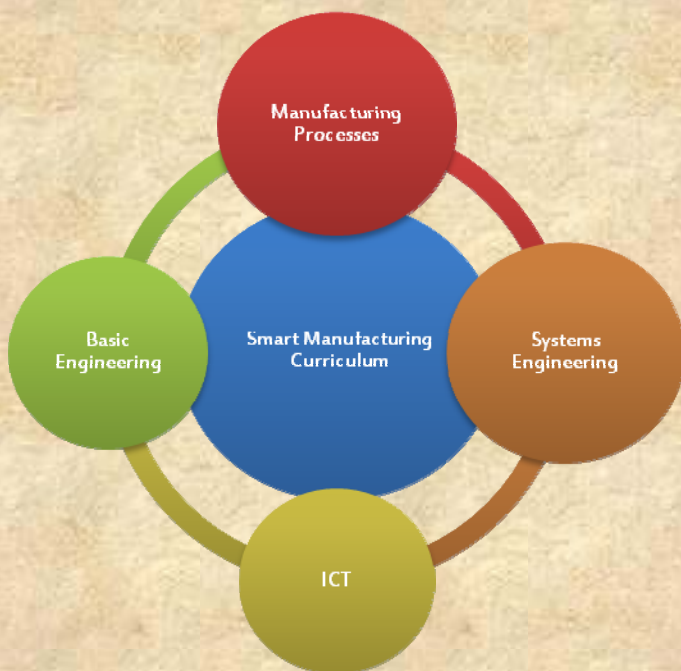
4th CONVOCAATION (30 July 2016)



Degree	Discipline	No. of Students
B. Tech	Computer Engineering	28
	Electronics Engineering (Design & Manufacturing)	27
	Mechanical Engineering (Design & Manufacturing)	31
M. Des	Communication Systems	14
	Electronic Systems	15
	Mechanical Systems	13
Ph. D		4
Total		132

LAUNCH OF SMART MANUFACTURING

IIITDM has embarked on a new journey this academic year, and is the first in the country and the world to introduce a new course - B-Tech “Mechanical-Smart Manufacturing” Undergraduate Programme. For any successful programme to be carried out, first comes thought; then organization of that thought into ideas and plans; finally, the transformation of those plans into reality. This new course is the brainchild of our Director, Professor R. Gnanamoorthy, and he has played a pivotal role in making this programme a huge success. The programme was launched by Dr. Sudarsan Rachuri, Technology Manager R&D, the U.S Department of Energy, on 27 July 2016. Dr. Rachuri, an expert in this field, spoke on the need for “Smart Manufacturing” in today’s society. He said that Smart Manufacturing aims to take advantage of advanced information and manufacturing technologies to enable flexibility in physical processes to address a dynamic and global market, and it is thus the need of the hour for students of today to become competent in this field. Smart Manufacturing is an amalgamation of Information Technology, Networks, Data Science and Sensors for adaptive control and operation of the Manufacturing enterprises. The objectives of the program are to train a workforce that will cater to the needs of 21st century manufacturing plants which are increasingly becoming smart and connected.



ORIENTATION PROGRAM—2016

The orientation program for the first years of IIITDM Kancheepuram and IIITDM Kurnool was conducted as a four-day program from 26th-29th July 2016. The program consisted of an array of guest lectures, interactive sessions, and campus tours.

The program was inaugurated by Dr. G Venkatesh, CTO, Sasken Technology and Professor of Practice at IIT Madras. The inauguration was followed by a speech by the director of IIITDM Kancheepuram & Kurnool, Prof. R. Gnanamoorthy. Members of the institute faculty then took turns to address the students about the institute curriculum and campus life.

The second day began with a guest lecture by Dr. Swathi Gurumani about the opportunities for Electronics and Computer Engineering specialization. This was followed by an interactive session of guidance and counselling by psychologist Ms. Sangeetha Madhu of CHILD. She emphasized the need for students to take leadership on their own, and also stressed the importance of appreciating what one has in his/her life. The session was followed by an introduction to the Designers Club by Dr. S R Pandian.

On the third day of the event, Professor L S Ganesh of IIT Madras delivered a lecture on “Working with Purpose and Innovation”. This was followed by the launch of the Smart Manufacturing Program by Dr. Sudarsan Rachuri, who described what the program entailed and its importance in today's world.

In the evening session, Mr. Murali Karthikeyan of TIME addressed the students on their career options and the necessity to plan for the future from day one. The day ended with a yoga session by Mr. Selvam (of TN Physical Edn. and Sports Univ) which made everyone feel calm and refreshed.

The final day of the orientation program began with a lecture titled “Preparing yourself for Make in India” by Dr. Satya Prasad from Ms. Ashok Leyland . This was followed by an introduction to engineering and design by Professor Krishnaiah, Emeritus Professor at IIT Madras. The fresher girls were taught self-defense by Karate master Mr. Mani, while the boys were engaged in a yoga session. The orientation program concluded with a campus tour.



INAUGURATION OF KNOWLEDGE PLAZA

“The only thing that you absolutely have to know is the location of a library,” stated Albert Einstein. The importance of a library especially in a student’s career is immeasurable. In light of the vital role played by the space of knowledge, IIITDM opened its “Knowledge Plaza” (a.k.a. the institute’s library) on 16 August 2016. It was inaugurated by the Director, Prof R. Gnanamoorthy. The Knowledge Plaza currently has about 6000 printed volumes, and more than 1000 electronic subscriptions.



INAUGURATION OF LABORATORY COMPLEX



A Laboratory Complex, which is the most essential infrastructure for a Research cum Education Institute, has been added to our Institute. A part of



the lab complex was inaugurated by Prof. R. Gnanamoorthy, Director, on 22 July 2016. The complex has been planned after a lot of brain storming about the functional requirements of IIITDM, and study of similar facilities at peer Institutes. The buildings has magnificent views and State of the art facilities.

The building is built with GRIHA 4 star compliant. The building is designed to have optimum day light usage, the open spaces inside the built up area will have excellent cross ventilation for non-AC areas and has state of the art technology for energy conservation.



ROBOTICS WORKSHOP



In the coming years, whether we like it or not, robots are going to become an integral part of our lives. It is thus essential that humans learn the skill set needed to work with robots. In a step towards that goal, our institute along with SP Robotics organised a workshop on “Gesture Controlled Robotics” where the first year students and school students in the vicinity of IIITDM learnt to build a gesture-controlled robot over a span of two days. Although the robot looked pretty basic, the experience gained and the learning components obtained were invaluable. The workshop started with assembling the chassis on the first day, using acrylic boards and screws, rubber wheels, motors and Arduino with an Auton shield connected on top of the Arduino to communicate with the motors. The second day involved programming the Arduino to obey the gestures and control the robot accordingly, and by the end of the second day, the students had a completed robot in their hands. The workshop not only taught the students to build a robot, it helped them to learn the importance of teamwork and sharing. Neil Armstrong once said, "That's one small step for man, one giant leap for mankind". The small step taken by the students years during the workshop has ignited a spark that will help them in building game-changing inventions in the future.

ENGINEERS' DAY— 2016

Engineers' Day was celebrated with great fanfare in IIITDM on 15 September 2016. The special addresses by Mr Sekar Ganesan, Former Senior President of M/s. Tech Mahindra; Mr K S Ramanujan, Founding Director of M/s. Encompass Electronics Pvt. Ltd., and Mrs. Padma Parthasarathy, Senior Vice President & Head Of Consulting Business, M/s. Tech Mahindra, were on the theme of Engineering and Entrepreneurship.

STUDENT ACHIEVEMENTS



IEEE Madras Section sent a youthful delegation to attend IEEE SYWL Congress 2016 held at Bangalore during 25 - 27 August 2016. The event was held coincidentally with the 50th anniversary of IEEE Region 10.

Ms. Sangamalika Rajakumar, a 3rd Year student of IIITDM Kancheepuram, presented her idea in the IEEE Innovation challenge finals and was part of the team that won the FIRST place.

INTERNATIONAL YOGA DAY

According to the well-known Yoga expert Amit Ray, Yoga “is a science, science of well-being, science of youthfulness, science of integrating body, mind and soul.” 21st June is recognized as the International Day of Yoga by the United Nations. This official recognition by the U.N. of the ancient Indian physical and mental practice will ensure that the art of yoga is celebrated and followed the world over. In view of the international yoga day, events were held in IIITDM for the benefit of the institute fraternity and the students of schools in the vicinity. Yoga demonstrations by facilitators, practice drills for students, and drawing events centered on the theme of yoga poses were organized.



TEACHERS' DAY CELEBRATIONS AT IIITDM

- Teachers' Day was celebrated enthusiastically by teachers and students at IIITDM on 6 September 2016. The gathering was addressed by the Director, Prof. R Gnanamoorthy, who shared his views on the characteristics of the most influential teachers. Dr A Divya, a faculty of the humanities delivered the special address on the love of learning. The celebration reminded us of Dr S Radhakrishnan's valuable thought that "true education should deepen our insight, widen our horizon, [and] create a meaningful outlook". Sports competitions were held for the faculty and staff of the institute, and trees were planted on campus as part of the teachers' day celebrations.



AZAADI 70 CELEBRATIONS AT IIITDM

The 70th Independence Day of our country was celebrated in our institute with great enthusiasm and patriotism from 12th to 23rd August 2016. The events, which included of various competitions, were based on the theme of Indian independence.



On 15 Aug 2016, after the inspirational speeches and cultural programs, there was a display of the trash-can robot and drone designed and developed the Designers Club of IIITDM.

The various competitions during the 10-day-long celebrations included classical singing, extempore, debate, poster making competition, face painting, rangoli drawing, dance competition, currency making, photography and short film making. The students partici-

On the final day of celebration, 23rd August 2016, prizes were distributed to the winners of various competitions, by our honourable Director, Professor Gnanamoorthy. The program concluded with his speech , which exhorted the youth to serve their motherland through their innovations in their fields.

GUEST LECTURES AND WORKSHOPS-MAY-AUG 2016

- “A Mathematician's Experience in Software Engineering and Teaching - A Career Sketch [1970-2016]” by Dr. A. S. Beebe from Department of Mathematics and Computer Science Henson School of Science & Technology Salisbury University on 04 July 2016.
- "Internet of Things for Connected Vehicles" by Shri. Vijay, Director - Engineering in Mobile Terminal Products Group for ARICENT Technologies Limited on 12 August 2016.
- “Smart Manufacturing with Open Source Culture: Opportunities & Challenges” “ by Shri. Siva is the founder of CUEDIO Technologies on 20 Sep 2016.



- “ Digital Imaging Perspectives to microscopy, optics and resolution“ by Shri. Shyam Baskaran, Director, IQC Group of Companies on 21 Sep 2016.
- "Musings of an entrepreneur" by Shri .T.E.Gautham, CEO of Hinote Systems on 28 Sept 2016 .
- “Advanced topics in signal processing, RF and wireless communication
Period: 13.06.2016 to 15.06.2016
Dr. P.H. Rao, Scientist, SAMEER, Chennai and others IIITDM Kancheepuram & UKIERI (UK – India Education and Research Initiative).

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