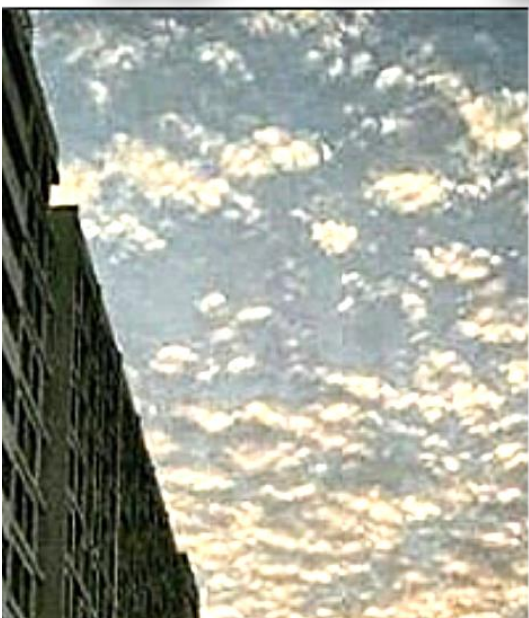




மாண்புமிகு



NEWSLETTER BY IITD&M KANCHEEPURAM
VOLUME 12 , ISSUE 1





With, Dr. Banshidhar Majhi,
Director,
IIITDM Kancheepuram

Q: Why did you choose teaching as your profession?

A: Teaching is a profession which creates all other profession. Teaching is one of noblest profession, it has scope to bring out talent. This profession I chose from day one after I graduated. But in the very 1st day I couldn't get the opportunity, so I was in industry for almost 3 years but my passion was always for teaching. Subsequently I got opportunity in my alma mater REC Rourkela I joined as a faculty there. Also teaching is in my gene. My father, elder brother, sister are teachers, so I was very curious to join this profession.

Q: What is your long-term vision for IIITDM?

A: I joined IIITDM on July 2017. I went through Detailed Project Report (DPR) of institute, every institution has got its own mandate and IIITDM is mandated for producing a different class of graduates compared to other tech schools like IIT NITs. Our thrust is to produce graduates who are embedded with core engineering, design and manufacturing skills Hence, they will be suitable for complex problem solving, designing and the way of solving it for viable solutions. My whole thrust of two and a half years is to direct the institutions result in this track by putting effort from faculties, students, all stakeholders of this institution and also bringing alumni into the forum. My effort is there to see IIITDM as one of the technical schools, center of excellence at par with world class institutions. It is a big dream but I will try my best to make this institution noticeable in India's map and then subsequently the world map. That is my vision.

Q: How IIITDM is collaborating with industries to make students ready for corporate world?

A: IIITDM is an autonomous institution and has got liberty to change its curriculum keeping the demand of present-day industry. Every year or alternate year we look into curriculum by collaborating with industries and academia experts. We form a committee and see what are the revisions that can be put into. Either to include new professional elective or bring changes to existing curriculum. In addition, I also requested our faculty to put the recent trends in any subjects and to do this we do industry collaboration very extensively. After my joining here we have around 5 industry MoU from where we have received projects and also our faculty driven industry collaboration. In addition, we have also collaborated with another 10 industries where they have signed MoU to give internship to our students and as you know our curriculum has extensive internship program where students are spending 5 months. Now we have planned that students will spend 8 months in industry. This gives students the complete industry exposure before graduation.

Q: What makes IIITDM stand apart from IIT and NIT?

A: IIT and NIT are technology bound institutions and the students spend most of the time on the departmental core as key activities. As far as IIITDM is concerned, we take flavor from technical schools as well as design schools. In addition to core courses we are offering 6 design courses starting from 2nd semester onwards to 6th semester. Students learn conceptual design, behavioral design, structural design to the prototyping and get an opportunity to learn about the product whether it is new or existing causing new thoughts to grow in mind. I strongly feel that we are going 1 mile ahead as compared to IITs and NITs. So our students are quite different from theirs and I am 100% sure when my students or our student are facing along with IIT and NIT they will definitely stand apart and they will have an edge over them.

Q: IIITDM has one of the best sports facilities. What are your plans in that direction?

A: Today's students are much ahead compared to earlier generation and there are a lot of avenues to learn. The students hardly spend 50-60% of their time for curriculum rest 40% they are free. And second thing is present day students are much smarter and talented compared to earlier days where youth were putting their complete thrust into studies. If I look back things in IIITDM and NIT Rourkela every student has got additional talent. Thirdly students are interested in overall 360° growth and only academics is not sufficient. These are the three things which need to be considered and when my student goes out very satisfactorily, they become our ambassadors and positively influence others to join IIITDM. Hence,

we are trying to maintain good indoor sports facility, but we are also trying to improve outdoor sports facility. Unfortunately, we couldn't have a swimming pool, I have contacted a nearby place where there is swimming pool for contract basis so that students can learn. I give utmost importance to extracurricular facilities; students are encouraged to participate in inter IIIT and other competitions. If the students come with proposals then I am open to that. Students here have music club; I was requesting to add more musical instruments so more students can participate.

Q: What's your story? How did you get where you are today?

A: I never thought that at first day of teaching profession I should aspire for director, aspiration is different. The fact is that it should be a journey. Starting from day one I joined as a faculty I did justice to my profession. I strengthened my teaching learning abilities then as soon as I joined, I started my higher studies both masters and PhD. Again, doing high quality research is not straightforward I first started my journey for research and guided masters, PhD and all students and wherever I have taken the responsibility I have tried to put best of my potential into it. Similarly, in the process, when I was growing in the institute NIT Rourkela, I was assigned several admin responsibilities. i.e. when you are a part of institution it is your responsibility also to see what are the different places you can contribute. I have served as HOD, warden of hostel & automation cell incharge. My dream was to automate most of the activities of institution because I believed automation brings efficiency, effectiveness and transparency to stakeholders of institutions whether it is student, faculty, parents and industry. Luckily, I got opportunity in 2004 to become incharge of automation cell and I served till 2017. I am proud to say that there we developed indigenous ERP system starting from registration to all academic processes. we even went to level of doctor prescribing medicine through machine. This even allowed to generate data on medical trend for research and analysis for students. Subsequently I was incharge of examination and later served as Dean of academics in NIT Rourkela and during any positions whichever I held, I tried to make a difference. You may ask what new you have done or what great you have done, remember whenever you are going to a particular position understand the system and learn what new things can be associated because every system has scope for improvement you have to identify them and work towards it. I just did my level best in all my roles. Later on I got an opportunity to serve in IIITDM Kancheepuram in 2017 and I am putting my efforts in considering all stakeholders and moving towards vision of institute.

“

Whenever you are going to a particular position understand the system and learn what new things can be associated because every system has scope for improvement you have to identify them and work towards it.

Q: What is your passion other than teaching?

A: One of my passion other than teaching is listening to music, especially old ones. But I am not a singer. Second, I play table tennis but sometimes I am not able to get time for that and thirdly to work with youngsters for upliftment of society and I have requested to have NSS activities here.

Q: How can youngsters prepare themselves for future. Studies or job?

A: Everything is one's personal choice, students must first extract information about serving in industry. I don't say industry is bad, teaching is great or vice versa. If you are interested in research don't think you get that opportunity only in teaching now all industries have got their research labs. What ever you wish to become like manager or researcher they will have different requirement. When you want to go for teaching you should be multi-talented to teach as well as research and manage. But again, don't worry about it, you may not identify if you have these capabilities or not as you are young. But you must be informed what are the things your profession demands and you should be mentally prepared before you join there. I joined teaching because of my own passion, I know that I could do higher studies, research, guide students, go for patents and was mentally prepared. Call of the day is to do excellence and to do it, you need hard work and for that motivation is must.





IITDM SPORTS ACTIVITIES

FIT INDIA MOVEMENT

The students and faculties of IITDM observed the Fit India Movement with live webcast from Govt. Of India on 29/08/19.



INTER DEPARTMENT SPORTS EVENTS

The teams from various departments of IITDM came head to head during the Inter department sports events conducted through October and November of 2019.



FRIENDLY CRICKET MATCH

The faculties and staffs of IITDM had a friendly cricket match as part of Independence Day on 15/8/2019.

Workshops and Conferences

Design for Additive Manufacturing (DfAM)

Dr.K.Senthikumar, Assistant professor, Department of Mechanical Engineering organized Short-term Training Program (STTP) on Design for Additive Manufacturing (DfAM) during May 6-10, 2019. This STTP was focused on DfAM methods that identifies opportunities for increased complexities in design. Participants were trained on software which includes CURA, Boothroyd Dewhurst DFMA, Autodesk Generative Design, Altair Inspire Solidthinking and Rhino3D-Grasshopper.

Workshop on “Hands-on-Training Program on Technical Writing and Publishing with Advanced Computer Tools” was jointly coordinated and organised by Dr. K P PRADHAN and Dr. MUNESH SINGH in association with IEEE , IIITDM student branch during May (25-29), 2019.

Workshop on “Data Science workshop on Python” was organised by Prof. BANSHIDHAR MAJHI, Dr. N. SADOGOPAN, Dr. B. SIVASELVAN, CSE department of IIITDM Kancheepuram, May (2-6), 2019.

Workshop on “Internet of things in supply chain management (IOTSCM)” was conducted on 27th and 28th June, 2019 organised by Dr. SHAHUL HAMID KHAN and Dr. KALPANA P. The work hop had prominent speakers from FORD such as Mr. Harishankar Rajendran, Dr.Malolan Sundararaman, Dr.Rajkanth Raju, Mr.Aravind Kumar, and Dr.Arshinder Kaur.

A 5 day National workshop on “Advanced Welding Techniques” was conducted from April 29th to May 3rd, 2019 organised by Dr. SHAHUL HAMID KHAN. More than 40 student’s attended the event.

NPTEL Workshop on “Mechanical Design Simulation Practice” was conducted by Dr. VENKATA TIMMARAJU MALLINA from 20th to 25th May,2019(also from 27th May to 1st June). 114 students attended the event.



Conference on “1st International conference on Energy, Systems and Information Processing” (ICESIP-2019) organised by DR. CHITTI BABU and DR. JAGADEESH KAKARLA in association with IEEE which was held at IIITDM Kancheepuram during July (04-06), 2019.




DATE	PLACE	WORK SHOP	ORGANIZERS
25/01/2020 26/01/2020	IIITDM- KANCHEEPURAM	Cyber Security Workshop	Vortex, NIT Trichy
29 to 31 Jan2020 & 3 to 4 Feb2020	IIITDM- KANCHEEPURAM	MDP / FDP on Six Sigma Green Belt	Design Innovation Centre, IIITDM Kanchipuram
28/12/2019 29/12/2019	IIITDM- KANCHEEPURAM	Battery Technology for Electric Vehicle	Dr.Raja B Dr.Selva jothi
28/11/2019 29/11/2019	IIITDM- KANCHEEPURAM	Arduino workshop	Design Innovation Centre, IIITDM Kancheepuram
18/10/2019	IIITDM- KANCHEEPURAM	Electric and Hybrid Vehicle Engineering	Dr. Damodharan P





DATE	TOPIC	SPEAKER	COORDINATOR
5/02/2020	Transition to electric mobility - challenges and opportunities in INDIA	Dr KRA Nair	Dr. Priyanka Kokil
31/01/2020	IoT/Cloud based-Theft/Leak-detection model in oil and gas pipelines	Dr. Satya Mokamati (President & CEO) and Mr. Hamed Ghasvari Jahrom	Dr. Venkata Timmaraju Mallina
29/01/2020	PEMFC Fuel Cell and Electric Mobility	Dr Subramaniam C K	Dr. Priyanka Kokil
21/01/2020	Prescriptive Analytics for Energy Efficient Datacentres	Dr. John Panneerselvam, University of Derby, U.K	Dr.B.Chitti Babu (IEEE)
13/01/2020	Seamless junctions for Nanoelectronics: Myth or reality	Dr. Abhaya A. Sagade	Dr. Kumar Prasannajit Pradhan
01/11/2019	SHAKTI team(India's first open-source, production-grade processors and also associated components like interconnecting fabrics, verification tools, storage controllers, peripheral IPs, and System on a Chip tools.)	Mr. Arjun Menon	Hrishikesh Vedantam (CS Club)
27/09/2019	Emerging trends and challenges in the design and manufacturing of Electric Vehicles.	Mr. S A Sundaresan(Vice President, EV and eMobility Solutions, Ashok Leyland)	Dr. Siva Prasad AVS
23/08/2019	Vehicular Ad-Hoc Networks/Internet of Vehicles.	Dr Moumita Patra	Dr.Sadagopan

INVITED TALKS

DESIGN INNOVATION CENTER



DIC ACTIVITIES

- A Total of 34 Students participated in the Two day Arduino Workshop . They were exposed to Arduino fundamentals, advanced arduino session covering practical hands on session and real time application implementation.
- Mr. Zico Sagolsem and Ms.Akanksha Tyagi from Quality Council of India visited and reviewed Design Innovation Centre on Jan 09,2020.

S.no	Name of the program/workshop conducted by DIC	No of students participated in the workshop	Description/theme of the workshop
1	Design centric approach workshop – for Batch 1 students conducted from Feb 1, 2019 to Feb 2, 2019	32	The students were allowed to choose a problem and solve based on the design centric approach thinking and problem solving concepts and ideas presented by industry experts.
2	Product design competition conducted on Feb 08, 2019	30	Students presented their design ideas and three groups were selected for implementing their designs into functional prototype.
3	Design centric approach workshop – for Batch 1 students conducted from Feb 19, 2019 to Feb 20, 2019	20	The students were allowed to choose a problem and solve based on the design centric approach thinking and problem solving concepts and ideas presented by industry experts.
4	Two day Arduino Workshop conducted on Sep 22,2019 and Sep 28,2019	9	Students were exposed to Arduino fundamentals and advanced Arduino session covering practical hands on session and real time application implementation.



MaDeIT

DESIGN, INNOVATION & INCUBATION



INCUBATION ACTIVITIES

- 1 Aug 2019: MaDeIT setup a stall in the CII Startup Conclave to socialize the opportunities for incubation and the manufacturing accelerator programme. The event generated useful leads for MaDeIT.
- 10 Aug 2019: MaDeIT organized a half-day workshop in the industrial hub of Ambattur to socialize the concept of the Accelerator Program. About 30 MSMEs participated in the workshop. The event generated leads for MaDeIT incubator and accelerator.
- 14 Aug 2019: MaDeIT organized its ninth round of incubatee selection. A total of 8 companies out of 12 shortlisted applications were selected for incubation. Two of the companies have signed up for incubation and the rest six have signed up for pre-incubation and will be joining after completion of their company registration. At present, MaDeIT has ten companies in incubation and seven in pre-incubation.
- 14 Aug 2019: MaDeIT selection committee evaluated applications for seed support from existing companies. Two out of four companies were recommended for seed support.
- 14 Sep 2019: MaDeIT organized a second workshop in the industrial cluster to socialize the concept of Accelerator to industry associations like TIEMA. About 25 MSMEs participated in the event.

DESIGN AND INNOVATION ACTIVITIES

- 31 Jul 2019: IIITDM IIC representatives (Dr. Jayachandra Bingi and students) participated in the one-day workshop and PoC demo session organized by MHRD in Chennai. Three teams showcased their PoCs.
- 3 Aug 2019: About 230 third-year students undergoing the course on Entrepreneurship & Management Functions were given an opportunity to interact with manufacturing MSMEs in Chennai to understand their challenges and their readiness for emerging technology related opportunities.
- 21 Sep 2019: A one-day workshop on “Need Identification” was organized for 350 second-year students. This workshop was designed to augment the problem-based learning process in the “Systems Thinking for Design” course. Senior student members of the IIC interacted with the student teams to brainstorm and provide feedback.
- 21 Sep 2019: A one-day workshop on “Business Model Design” was organized for 230 third-year students. This workshop was designed to complement the “Entrepreneurship & Management” course pursued by the students in this semester. Two external industry experts, the CEO of MaDeIT and senior student members of the IIC interacted with the student teams and provided feedback.

TEACHING LEARNING CENTER

- TLC staffs Mr. Mahathi Dhanavanthan and Mr. Jacob Raj conducted Fusion 360 CAM lecture in BOOT CAMP organised by AUTODESK India and SNS College of Engineering. 70+ students from SNS Engineering College and KSR Engineering College took part on 1st october 2019.
- Faculty from Mahalingam College of Engineering and Technology, Nachimuthu Polytechnic and a TVS Motor Company, Hosur official visited on 08.11.2019. They have requested our help to set up a Fab Lab for which they also wish to purchase TLC low-cost technologies.
- Mr Udhay Bhasker, Regional Manager of Secunderabad-based Butterfly Edufields visited on 30.10.2019. They are a company with 100+ employees , building and marketing STEM kits for schools and facilitators of school Makerspaces. They have requested training for their Product Development team in TLC to familiarize with our Educational technologies.
- 2-day CNC Machine Building Workshop was conducted by TLC staff at Bengaluru Nitte Meenakshi Institute of Technology for faculty and students on 19.10.19.
- The IIITs Peer Review Committee members visit 14.10.19. When they were told that IITH and colleges and high schools have bought our fabricated machines, Prof Phatak suggested that our own departments should be the first to buy and use them.
- On 29.06.2019 Prof Neelesh Mehta of IISc ECE Department and Prof Girish Kumar (in specs) of IIT Bombay EEE Department visited TLC. Prof Kumar was interested to purchase some of our machines for his department.



BiRD LAB

Bio-inspired Research and Development laboratory

BiRD lab is collaborating with National Institute for Research in Tuberculosis (NIRT), Chennai to develop Tuberculosis detection device and visited labs at NIRT for discussions.



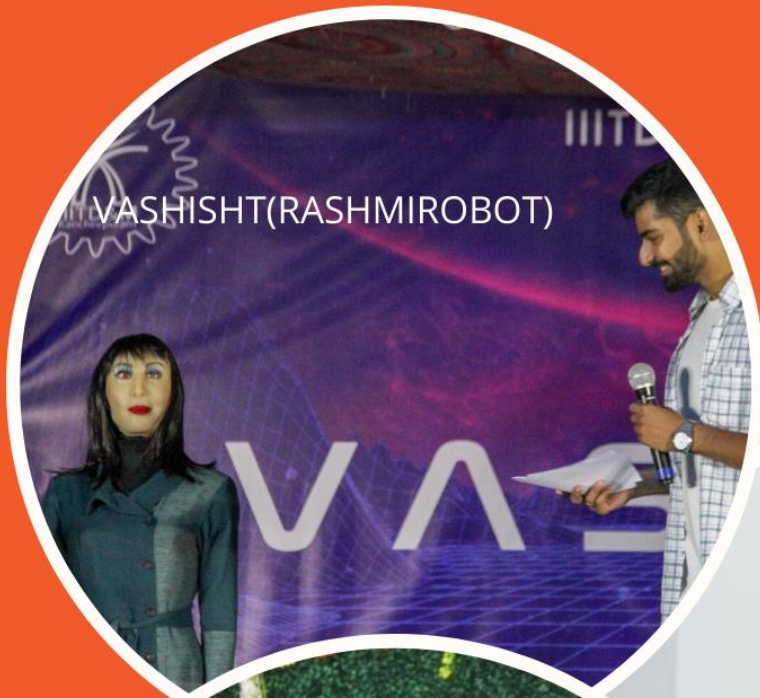
Dr A K Razdan, Associate Director, LASTEC, DRDO, Delhi along with his colleagues visited BiRD lab, interacted with students about their projects and discussed about future collaborations.



Foundation day was celebrated in BiRD lab on 31 Jan 2020 by having open day. Director, faculties and students visited lab. Students working on different projects in BiRD lab showcased their work by poster presentation. All visitors interacted with students.

CULTURAL ACTIVITIES

- NAVARATRI CELEBRATION (06 OCT 2019)
- DUSSEHRA (08 OCT 2019)
- 150TH GANDHI JAYANTHI (02 OCT 2019)
- HINDI PAKHAWARA (26 SEP 2019)
- TEACHERS DAY (05 SEP 2019)
- GANESH CHATURTHI (02 SEP 2019)
- 73 INDEPENDENCE DAY (15 AUG 2019)
- SPORTS DAY CELEBRATION (29 AUG 2019)



- DIWALI (27 OCT 2019)
- FRESHIE NIGHT (02 NOV 2019)
- DANDIYA NIGHT (7 OCT 2019)
- VASHISHT'19,(SPACE EDITION) (18 OCT 2019)
- ONAM CELEBRATION (14 SEP 2019)
- CONSTITUTION DAY CELEBRATION (26 NOV 2019)
- ETHNIC DAY (31 DEC 2019)

HOBBY ZONE

Out of classroom



VIDHAI

Vidhai is a nonprofit initiative by the students of IIITDM kancheepuram endorsed by the administration.

VISION : TO BRIDGE THE GAP BETWEEN THE UNDERPRIVILEGED CHILDREN AND WELL OFF LAYING GREAT EMPHASIS ON EDUCATION

They conducted two kinds of activities in nearby government schools.

I. Teaching activity in which our student volunteers go to schools and teach mathematics, science and English using activity based teaching methods.

II. Helping in the development of infrastructure of the government schools by technical and financial resources.

As of now, it is tied up with the Government high school, Kumizhi located at a distance of 6kms from the campus. The aim is to expand to the number of schools around our campus in coming years.



THE MUSIC ZONE

CREATING A CULTURE OF MUSIC

ABOUT

The Music Club has been one of the leading avenues of extra curricular in the institute. They have hosted several informal mic nights, performances for students to explore their love of music and creativity.

ART OF NOISE

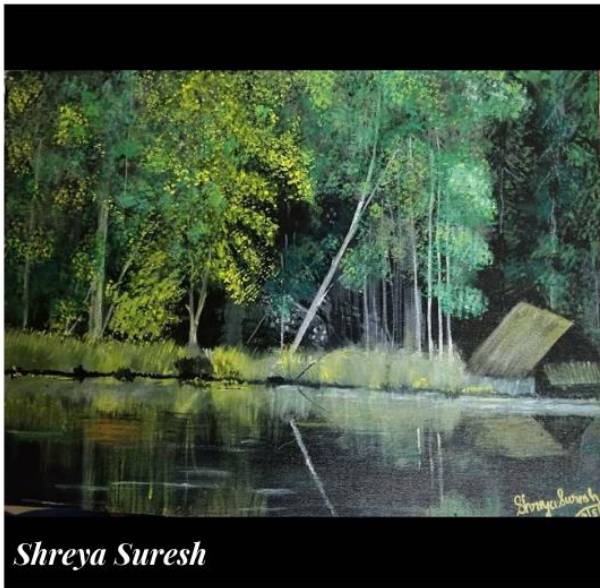
Art of Noise is a successful band which emerged out of Music Club. They perform Eastern Rock and Western Rock genres. They have contested in several competitions including Saarang, Festemeber, Revivals and Milan. They gave the host performance for our very own Samgatha.

JAM- THAT'S HOW THEY ROLL

Jamming has been an integral part of music club out of which several covers and own compositions have emerged over the years. They have their Youtube channel and Instagram page to showcase some of the renditions. Do check them out!



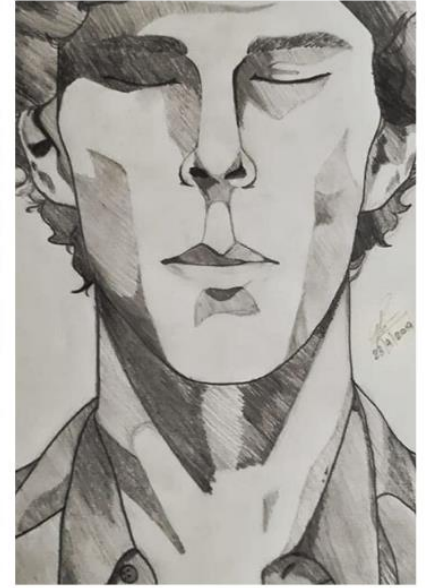
Handwork



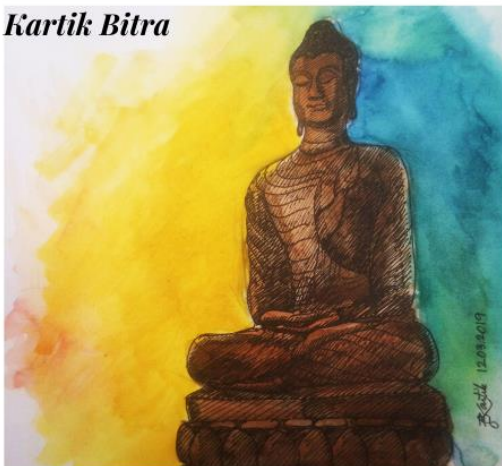
Shreya Suresh



Rishi



Kartik Bitra



Kavipriyan



*Time flies over us, but leaves its shadow behind
- from art club*



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

(An Autonomous Institution Under MHRD, Government of India)

Vandalur-Kelambakkam Road, Chennai- 600127.

Ph: +91-44-2747 6300 Fax : +91-44-2747 6301 Email :office@iiitdm.ac.in

Editorial Team

Dr. Jayachandra Bingi

Ms. Sivarenjini T M
Mr. Loheshwaran C

Mr. Syed Kashifulla A
Mr. Arivazhagan P

Mr. Pritam P Shetty
Ms. Hemalatha V