



## MargDarshan



A Decade of Excellence, A Crystal Jubilee of Progress

Innovating the Future

Milestone: IIITDM Kancheepuram Soars to 8th in Innovation

## About the Institute



Globalization has spurred convergence of customer expectations, placing India's manufacturing sector in a position to This requires high-quality products infused with advanced technology and cost-efficiency. Essential to this goal is a skilled workforce proficient in design, development, and modern IT tools.

IIITDM Kancheepuram located in Chennai was established in 2007 by the Ministry of Education, Government of India, plays a pivotal role in preparing graduates for these challenges.

global Located the institute offers near Chennai, undergraduate and postgraduate programs in IT, design, and manufacturing engineering. Programs compete on a regional and worldwide scale include Bachelors, Dual Degree, Masters and Doctoral studies in departments of Computer Engineering, Electronics and Communication Engineering, Mechanical Engineering, Humanities and Sciences, and Interdisciplinary Design.

> Faculty members engage in various research activities, industry-sponsored research projects and setting up state-of-the-art research laboratories. They immensely contribute to India's competitiveness in Science and Technology research and the global market.

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### Chairman BOG

As Dr. S. Sadagopan concludes his tenure, we extend our heartfelt gratitude for his exceptional leadership, unwavering commitment, and invaluable contributions. Under his guidance, our institution has achieved remarkable milestones and prospered in numerous ways.

Dr. Sadagopan's dedication to fostering academic excellence and innovation has left an indelible mark on our community. We wish him the very best in his future endeavors and we will actively build upon the strong foundation he has laid for our institution.

We thank you for your outstanding service and leadership.





We are honoured to extend a warm welcome to Dr. Sridhar Vembu, the founder and CEO of Zoho Corporation, as the new Chairman, BoG IIITDM Kancheepuram.

With his vast experience and visionary leadership, we are confident that Dr. Vembu will guide our institution towards new heights of excellence, innovation, and academic success. His dedication to technology and education will undoubtedly benefit our students and faculty, fostering a brighter future for IIITDM Kancheepuram. We look forward to his inspiring contributions.

### Director

### Dr. M V Kartikeyan



#### About the director:

Professor M.V. Kartikeyan assumed the position of Director at IIITDM Kancheepuram in October 2022, following an illustrious academic and research career. Prior to his directorship, he held a distinguished professorship at IIT Roorkee and was on deputation at IIT-Tirupati from 2020 to 2022. Prof. Kartikeyan's academic journey began with a master's degree in 1985 and a subsequent Ph.D. in 1992, specializing in Advanced Electronics & Radio Physics and Microwave Engineering.

His contributions extend beyond academia; he has served as a research scientist at the Central Electronics Engineering Research Institute, Pilani. Prof. Kartikeyan has received an impressive array of fellowships, including the prestigious Hildegard-Maier Research Fellowship for Electrical Sciences from the Alexander von Humboldt Foundation. He is also a fellow of prominent institutions such as IEEE, INAE, IET, VEDS, IE, and IETE. These achievements reflect his contribution to the field.

His research interests encompass a wide spectrum, ranging from high-power millimeter wave and terahertz sources to RF circuits, antennas and systems, metamaterials, fractals, computational electromagnetics, and RF and microwave design. Notably, he leverages cutting-edge techniques like machine learning to advance these areas of study. Prof. Kartikeyan's appointment as Director heralds a new chapter in IIITDM Kancheepuram's pursuit of excellence in education and research.

### Director's Message:

Our institute has made great strides in innovation. We have secured the 8th rank across all Colleges in India, a significant improvement from the previous year's range of 11-21 among INs and CFTIs. This achievement highlights our commitment to fostering a culture of innovation and creativity. We provide an environment that nurtures out-of-the-box thinking, research initiatives, and entrepreneurship. In the domain of engineering institutions, our ranking has improved. We now stand in the band of 100-150 compared to our previous position of 184. This reflects our dedicated faculty pushing the boundaries of knowledge and our students' pursuit of excellence in engineering education. These achievements are a testament to our robust curriculum, and preparation to make our students to be industry-ready professionals. We strive for cutting-edge research and innovation. I express my gratitude to our faculty, staff, students, and stakeholders who has contributed to these outstanding accomplishments. Together, we will continue to strive for excellence, foster innovation and empower our students to shape a better future.

## -Institute 10th Convocation



On the momentous day of September 10, 2022, Indian Institute of Information Technology, Design, and Manufacturing, Kancheepuram (IIITDM Kancheepuram) celebrated its 10th Convocation, marking the culmination of years of unwavering dedication to academic excellence. This event was a resounding success and reflected the traditional cultural values and ethos of India.

The presence of the esteemed Chief Guest, Nirmala Sitharaman, the Minister of Finance and Corporate Affairs for the Government of India, lent an air of distinction to the occasion. Notable figures like Professor S. Sadagopan, Chairman of the Board of Governors, and Professor DVLN Somayajulu, the former Director of IIITDM Kancheepuram, added to the atmosphere of inspiration and accomplishment. Faculty, staff, students, and proud parents came together to make this convocation truly grand.

A total of 380 exceptional students took the stage, including six PhD recipients, 53 M Tech graduates, 110 Dual Degree awardees, and an impressive cohort of 211 B Tech degree recipients. This event marked the end of a significant chapter in their lives and the beginning of new opportunities and responsibilities. It was a celebration of knowledge, perseverance, and the unwavering spirit of learning. These graduates, equipped with knowledge and determination, are poised to make a positive impact on society as they step into the future. The 10th Convocation of IIITDM Kancheepuram was not just an academic ceremony; it was a celebration of the values and principles instilled by the institute as graduates venture into the world beyond academia.













## -Institute 11th Convocation



The 11th Convocation of IIITDM Kancheepuram, which was scheduled for September 14th, 2023, was honored by the presence of Dr. N. Kalaiselvi, Secretary of DSIR, Government of India, and Director-General of CSIR, who had graciously accepted the role of Chief Guest.

The ceremony was also attended by the Chairman of the Board of Governors (BoG), Dr. Sridhar Vembu, and the Director, Prof. M. V. Kartikeyan, both of whom played pivotal roles in the institute's achievements and growth. With these esteemed individuals in attendance, this convocation became a significant and memorable event.

In the overview of graduates, the B.Tech program produced a total of 186 graduates, each with varying degrees of honors and distinctions within their respective branches. Similarly, the Dual Degree program saw 149 graduates with diverse honors and distinctions. The M.Tech program conferred distinctions upon 33 graduates, while the M.Des program graduated 12 students, with two achieving distinctions. Additionally, in the PhD program, 26 graduates were recognized across multiple disciplines. This succinctly encapsulated the academic accomplishments of graduates across various programs and years within the institution.

# -Institute Innovation Ranking

IIITDM Kancheepuram has achieved a remarkable feat by securing the **8th** position in the **Innovation category** of the **NIRF Ranking 2023**. This achievement marks a significant improvement from its previous ranking, which stood between 11th to 21st among INI's in ARIIA Ranking 2022.

The institution's success can be attributed to its unwavering commitment to research and innovation. IIITDM Kancheepuram boasts numerous cutting-edge research centers and labs spanning diverse domains, including artificial intelligence, machine learning, robotics, and sustainable energy. Both students and faculty are encouraged to foster creativity and generate novel ideas.

To support and nurture innovation, the institute has instituted several initiatives such as the MaDelT Innovation Foundation, a Technology Business Incubator, Institute Innovation Council(IIC), and the Design-driven Innovation Centre (DIC). Additionally, specialized centers like the Center for Smart Manufacturing, the Center for AI, the IoT Center, the Robotics Center, and the Center for Computer Vision provide essential research facilities and training.

IIITDM Kancheepuram has also forged strong ties with industry partners, facilitating research funding and the transformation of research into viable commercial products and services.

Furthermore, the institute is dedicated to promoting entrepreneurship through various programs and initiatives. It integrates design-based Learning into its curriculum to cultivate design thinking and problem-solving skills in students, and contributes to the development of creative and innovative engineers.

With its vibrant atmosphere and unwavering commitment to innovation, IIITDM Kancheepuram is poised to maintain its leadership in the field of innovation and entrepreneurship in the years ahead.

### —Vashisht 2023





From the 10th to the 12th of February 2023, IIITDM Kancheepuram hosted the highly anticipated three-day tech-fest, Vashisht. This event spanned a wide range of fields, from robotics to entrepreneurship, coding, and design, providing a rigorous test for participants. Over 2000 students from across the country were drawn to Vashisht, igniting a fervor for technology and innovation.

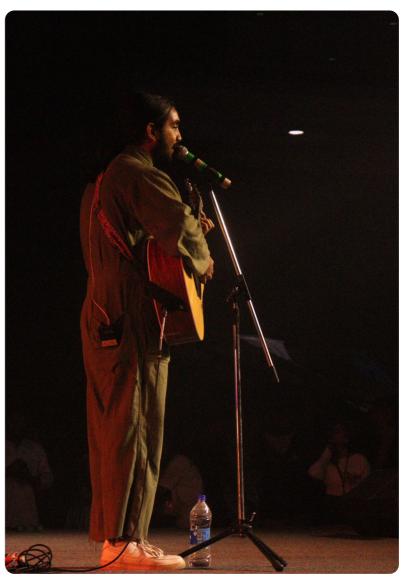
The fest's central theme focused on the adoption of 5G technology in India and promoted ocean sustainability. For the first time in its history, Vashisht saw a significant influx of external participants from various institutes across India. They engaged in flagship events like Pitch on Pitch, robot wars, amphibious vehicle challenges, and workshops conducted by industry leaders such as IBM, MATLAB, L&T, and more.

Sponsorship for Vashisht-2023 included Contentstack as the title sponsor, with Cigniti, Indian Bank, Punjab National Bank, HV Technologies, Startup TN mission, IEEE, Codechef, Verbwire, Devfolio, and DIC as co-sponsors.

The event featured a wide range of flagship events, informative proshows, and engaging workshops. Vashisht 2023 had a resounding success in fostering innovation and technical expertise by showcasing the talent and enthusiasm of students from various domains.









## Samgatha 2023



IIITDM's annual cultural extravaganza, Samgatha, left an indelible mark on attendees with its vibrant tapestry of events, entertainment, and camaraderie. The fest commenced with a pre-fest buzz featuring activities like sticky notes for expressing opinions on Samgatha, a lively meme contest, and enchanting movie nights beneath the starlit sky, which set the stage for the festivities.

As Samgatha approached, the campus transformed into a vibrant display of different Indian ethnic cultures. The students embraced the diversity of India by donning traditional attire from different regions of the country. The fest officially commenced with an electrifying inauguration ceremony featuring a flashmob and the symbolic lighting of the lamp, and ushered in a journey of culture and talent. Dance events marked the opening night, and left the audience in eager for the days ahead.

Samgatha's first day was brimming with excitement, featuring a diverse array of club activities, quizzes, debates, and culturally rich events. As evening approached, the spotlight turned to stage events, including captivating performances by bands like Lohar, creating a memorable experience that transcended language barriers. Samgatha 2023 was an unforgettable celebration of culture, talent, and it united, uniting students from diverse backgrounds in a shared celebration of creativity and artistry. Day two of Samgatha 2023 featured club and stage events, and concluded with an exhilarating performance by Aditi and Arun.





















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### — Vidhai





VIDHAI is a non-profit initiative founded by students at IIITDM Kancheepuram and endorsed by the administration. Its vision is to bridge the inequality gap, focusing on the education of underprivileged children.

#### The mission involves two categories of work:

- 1. Teaching: Student-volunteers are engaged in providing digitalized education to students in government schools, irrespective of the languages they know. Volunteers teach subjects like English, Basic Sciences, Soft-Skills, and Mathematics.
- 2. Non-Teaching: This includes tasks related to improving school infrastructure with funds raised by the institute's students.

Vashisht, in collaboration with Vidhai, organized a junior edition focused on the "Sustainable Development Goals of the UN." Approximately 1000 school students from government and private schools participated. Forty teams presented their projects addressing global sustainability challenges. Vidhai played a vital role in organizing and coordinating the event. To enrich their educational experience, participants engaged in educational events and toured state-of-the-art labs, exposed them to cutting-edge technologies and innovative research.

### Technical Clubs

### Achievements

**AUV Society** 

Mars Rover Students (MaRS)

SAE Collegiate Club:-

-mBAJA

-AeroTHON



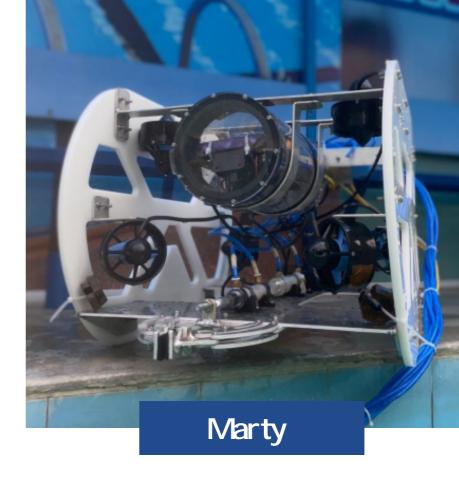






## A

## AUV Society



The AUV project aims to provide students an opportunity to broaden their knowledge of autonomous vehicles and underwater robotics. It was crafted by IIITDM Kancheepuram students passionate about underwater robotics. The first version was built in 2019, marking their debut at the Singapore AUV Challenge 2019 (SAUVC) as Team ATV and were placed 17th worldwide. The team strives to create advanced versions for competitions and initiates research and innovation in underwater robotics.

AUV Society began the year with its fourth working vehicle, a hybrid ROV-AUV, allowing it to switch between autonomous and remote operation. "Marty" competed in the MATE ROV 2023 competition, and "Nira" was the sole Indian qualifier. The team also achieved global recognition in the "Oceans Explorer Challenge" by MATE ROV.









## Wars Rover Students (WaRS)

Team SHUNYA, formed in April 2020, is a collaborative effort between MaRS Club at the Indian Institute of Information Technology, Design & Manufacturing, Kancheepuram, and Madras Christian College, Chennai. It is a diverse group of students passionate about robotics and autonomous systems, specializing in UGVs and industrial-grade robotic arms. The team's mission is to create robust systems for exploring inhabitable zones, fostering learning through practical experience in robotics and space exploration, including geology and microbiology research.

In 2023, the team achieved remarkable milestones in various prestigious competitions:

- Qualified for the World Finals of the European Rover Challenge (ERC) Onsite Edition. Ranked
   2nd in India and 18th globally.
- Attained the 2nd highest score in Qualification A for the ERC 2022 Remote Edition, securing
   6th place globally in the World Finals.
- Dominated the Australian Rover Challenge (ARCh) 2022, the team secured 1st place in Asia and an impressive 5th place globally in the Critical Design Review.
- Received a noteworthy score of 56.86/100 in the 2nd round (System Acceptance Review) of the University Rover Challenge (URC) 2022-23.

These achievements showcase the team's dedication and expertise in the field of robotics and space exploration. The team wants to expand its mission to develop cutting-edge technology for the exploration of inhabitable zones and provide more hands-on learning experiences for future scientists and engineers.

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## SAE Collegiate



### mBAJA:



Rebels Racers, a dedicated automotive team, achieved remarkable success in the SAE mBaja competition, secured AIR-43 overall among 116 teams, CFTI Rank-3, and TN Rank-8. They excelled in specific events, like Go Green (AIR-11, CFTI Rank-1) and Cost (AIR-15, CFTI Rank-1), which showcased their technical prowess, teamwork, adaptability, and problem-solving skills. Their achievements stand as a testament to dedication, ingenuity, and resilience.

The SAE Collegiate Club at IIITDM dedicates itself to the promotion of extensive mechanical design and engineering skills, with a keen focus on product design and fabrication. Our club is committed to nurturing a culture of innovation and technological advancement within the realm of automobiles and AI



## Club of IIITDM



### Driving Innovation in Design and Engineering



### **AeroTHON**



Team Fujin is an interdisciplinary team of drone enthusiasts which is currently participating in multiple national level UAV competitions. The team has participated in SAE-AeroTHON 2023, securing a 21 out of 89 rank nationwide in phase 1 of the competition. They have achieved a 2nd rank in the presentation round, and qualified for for phase 2. The team is structured into 3 major subteams, the software, electrical and hardware, which work in close collaboration to ensure the successful design, development and operation.

SAE Collegiate Club IIITDM is more than just a club, it's a dynamic platform for students of all departments who are passionate about design, engineering innovation and product design. Together, we drive the future of the automotive industry and buildi a brighter tomorrow where innovation knows no bounds.

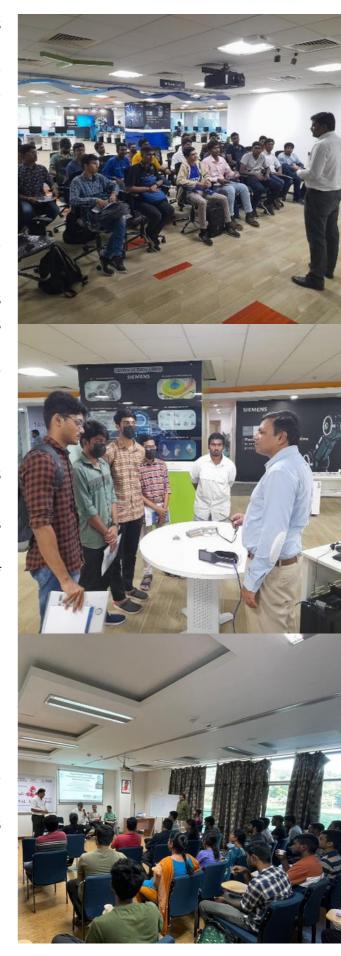


### Institute Innovation Council



Since 2018, Institute Innovation Council (IIC) guides IIITDM Kancheepuram to actively nurture innovation and entrepreneurship among its students and faculty members. Through competitions and events, they inspire students to engage in innovation-related challenges. The institution's commitment to fostering innovation is evident in its publication of an Intellectual Property Rights (IPR) Policy and establishing a dedicated cell in the year 2021-22, which has resulted in the filing of over 25 patents between 2019 and 2022. Additionally adoption of the National Innovation & Startup Policy, along with the creation of an innovation fund, reinforces the dedication to nurturing creative ideas. commitment has earned IIITDM Kancheepuram the 8th position in the prestigious NIRF Innovation Ranking for 2023, highlighting its excellence in promoting innovation and entrepreneurship.

In 2022 and early 2023, IIITDM Kancheepuram has continued to champion innovation, sustainability, and entrepreneurship through a series of enlightening events and talks. These events have featured distinguished speakers who have shared insights on various aspects of hydroponics farming, social entrepreneurship, climate science, and low-cost air quality solutions. The institute has actively participated in events like the "Ideathon on Sustainable Development Goals," where students have formed teams to develop innovative products promoting sustainability. The institution also has hosted also hosted talks on entrepreneurship, emphasizing the importance of stepping out of one's comfort zone. A seminar on "National Education Day" celebrated the pivotal role of innovation in education. This showcases initiatives IIITDM Kancheepuram's promote innovation-friendly innovation, ecosystem, social entrepreneurship and the pursuit of a sustainable future.





MaDeIT, the design-focused Technology Business incubation unit of IIITDM Kancheepuram, boasts a remarkable track record, backing 70 startups which include 15 in-house ventures. The MaDeIT team, alongside in-house experts, aids startups in refining their products and expanding industry connections with the Manufacturing, IoT, Health Care, Energy, and Clean Tech and Cyber Security sectors, which facilitates their funding opportunities and IPR management. MaDeIT operates a workspace called FabLab to facilitate prototyping for product startups through professional guidance and technical support to reduce the product development cycle. It offers the following funding programs which have benefited over 35.

- 1) **NIDHI SSS** provides financial assistance to startups from proof of concept to commercialization, with an average seed fund amount of Rs. 25 lakhs.
- 2) **NIDHI PRAYAS** aims to fill the early-stage funding gap for startups, enabling them to develop market-ready products through grant-in-aid of up to Rs. 10 lakhs for prototype development.
- 3) **NIDHI EIR** reduces startup risks and offsets opportunity costs. Entrepreneurs can receive grants ranging from Rs. 10,000 to Rs. 30,000 per month for 12 months.
- 4) **IVP** boosts innovation in MSMEs by assisting in the transformation of ideas into commercially viable products or services by providing grants ranging from Rs. 2 lakhs to Rs. 5 lakhs.

#### **ACHIEVEMENTS**:

The thriving entrepreneurial environment nurtured by MaDeIT is evident through the multitude of achievements by its incubatees. Tharam-Thiran Green Energy Flow Private Limited, Canary Biosensors, and Fluidsoft Alpha, all startups incubated by MaDeIT, have secured funding from the MSME Idea Hackathon 2.0, organized by the Ministry of MSMEs, Govt. of India. In addition, 20 startups have received 10 Lakhs each in NIDHI PRAYAS funding from the Department of Science & Technology, while and more than 30 startups have secured 7 Lakhs each in IVP funding from EDII-TN. Kameleon Technologies has unveiled their product at the Tamil Nadu Startup Fest in Coimbatore. Some other notable achievements of MaDeIT startups include:

Startup Name	Domain	Funding Received	Key Achievements
Way2Grow	AgriTech	10 L(NIDHI PRAYAS), 10 L (IVP)	63 lakhs revenue in FY 2022-2023 10+ clients
Magronic Contrivance Pvt. Ltd.	AgriTech	10 L (NIDHI PRAYAS), 20 L (Seed Support)	MoUs with Algal research institutesMoUs with commercial algal farms
Tharam-Thiran Green Energy Flow Pvt. Ltd.	CleanTech	1 CR (SocialAlpha), 10 L(Seed Funding) 10 L(NIDHI PRAYAS), 5 L(IVP)	Incubation and Funding from Foundation for Innovation and Social Entrepreneurship (FISE) and Clean Energy International Incubation Centre (CEIIC).
Steradian Technologies Pvt. Ltd.	HealthCare	10L (NIDHI PRAYAS), 10L(CSR,DANAIndia Foundation), 25L(Startup India Seed Fund Scheme)	Successful completion of Phase 1 clinical trial and securing private investment commitments.
Xera Aerospace Pvt. Ltd.	Manufacturing	10L (NIDHI PRAYAS), 2L (IVP)	Secured the Technical Expertise of Mr. Navneet Bhushan, Former Scientist at DRDO. Assembling India's Largest Hybrid Drone Developed by a Private Company and Successfully Flight Tested a 6 m Wingspan Solar Hybrid Drone

#### **ACTIVITIES:**

ACMEE 2023: Three MaDelT startups BayOfTech, Sri Chara Infotech and HoneyCore Products presented innovative solutions at the 15th International Machine Tool Exhibition, held at Chennai Trade Centre from June 15 to June 19, 2023. The event featured 435 organizations, including 105 international brands and notable guests attended the inauguration.

EHIPASSIKO 2023: The 14th edition of IIITDM Kancheepuram's Industrial Open House, held on April 1st, 2023, featured innovative ideas and prototypes from nearly 50 student teams. Industry experts provided valuable feedback, and projects titled "Knee pain management", "Milk Extraction Machine" and "Intelligent Fitness Instruments" received "Excellent Projects for the Academic Year 2022-2023" awards.

Covidya Startup Sandbox: The Covidya Startup Sandbox Summer 2023 program, spanning 2 weeks, nurtured entrepreneurial spirit in 30 participants through expert-led sessions on design thinking and innovation. It included transformative modules and practical experiences, culminating with awards and certificates, featuring distinguished speakers.

Defence & Technology Expo Edition 2.0: Chennai: MaDeIT Innovation Foundation showcased its services at this event held from Sept 3 - 5, 2023.









### Placements

The highest package offered to the batch of 2023 was 32 LPA (Lakhs Per Annum). Additionally, the campus has seen a significant number of job offers, with a total of 190 offers are extended by various companies. Impressively, more than 150 companies have visited the campus, indicating a diverse range of opportunities available to students.

In terms of placement success, the percentage of students placed stands at a commendable 73%. This indicates that a significant majority of students have secured job placements.

Moving on to the specific branches of engineering, here are the details:

Computer Science and Engineering: This branch received 88 offers with an average CTC of 12.72 LPA.

Electronics and Communication Engineering: Students from this branch received 46 job offers with an average CTC of 11.45 LPA.

Mechanical Engineering: The Mechanical Engineering branch secured 36 job offers with an average CTC of 6.56 LPA.

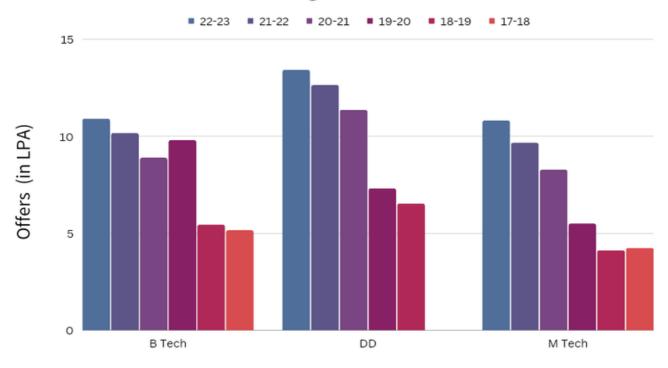
Smart Manufacturing: This emerging field received 18 job offers with an average CTC of 8.58 LPA.

These statistics provide an overview of the successful placement scenario at the institution, highlighting the strong performance of students across various engineering disciplines.

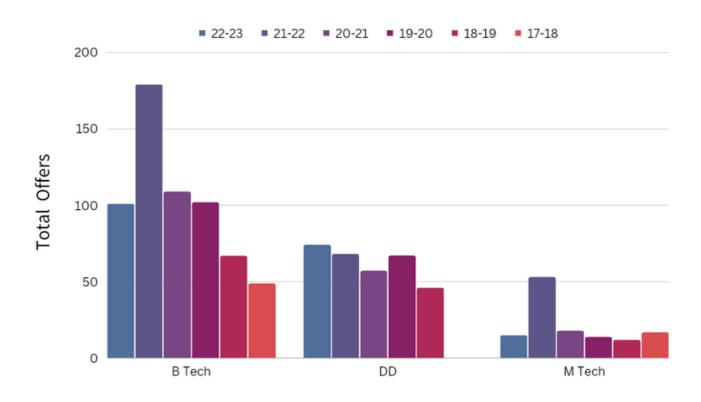


### Placement Trends

### **Average of Offers**



### **Total Number of Offers**



# Sponsored Research — Industrial Consultancy and Continuing Education (SRICCE)



The Sponsored Research Industrial Consultancy and Continuing Education (SRIC&CE) division at IIITDM Kancheepuram oversees sponsored research. It provides administrative, financial, and project management support, facilitates recruitment, liaises with funding agencies, protects intellectual property, and aids in technology transfer. SRIC&CE also initiates new research projects and national programs.

The institute has an Industrial Consultancy and Sponsored Research Cell (ICSR) to promote faculty engagement in research. Government agencies have supported funded and consultancy projects in diverse industries. The faculty collaborates with industry stakeholders through the Design Studio. The institute has secured substantial research grants over the past four fiscal years from organizations like DRDL, DRDO, DST, ISRO, and others.

The departmental funds received in the last four fiscal years in lakhs of Indian Rupees (INR) are as follows:

- The Computer Science department has received 67 lakhs INR.
- The Electronics and Communication department has received 113 lakhs INR.
- The Mechanical department has received 127 lakhs INR.
- The Science & Humanities and School of Interdisciplinary Design and Innovation (SIDI) collectively received 65 lakhs INR.

These funds are allocated to support various academic and research activities within each department, ensuring the overall development and growth of the institution's educational programs and interdisciplinary initiatives.

### Editor's Note

With great enthusiasm, we conclude this edition of MargDarshan. Inside these pages, we've curated a diverse collection of stories, ranging from the captivating Cultural Fest Samgatha to the dynamic world of research projects and patents.

A big thank you to everyone who has contributed to this newsletter. Our dedicated team has put in tremendous effort, and worked collaboratively to compile this edition.

We would like to express our profound gratitude to Dr. Tapas Sil, Dean DII, for his unwavering and significant support. Furthermore, we extend our sincere appreciation to our Professors in Charge (PICs), Dr. Kashfull Orra and Dr. Pandiri Venkatesh, for their invaluable support and guidance.

A special shoutout to J.R. Sukesh for being an amazing mentor and always lending a hand when we needed it.

As you read MargDarshan, we hope it reminds you of all the awesome things happening in our college. Thanks for your support, and stay tuned for more exciting stories!

Warm wishes,

Raj Gopal Choulapally

Editor

MargDarshan

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