

Impact of
Your Giving
in
2024

Celebrating the Generosity of

MR. K SURESH



Indian Institute of Technology Madras
Office of Alumni and Corporate Relations

Director's Message



Prof. V. Kamakoti

Greetings!

IIT Madras continues to retain her top position for the eighth consecutive year, in the National Institute Ranking Framework, thanks to the world-class research, unwavering dedication and creative mindset of its faculty and students. The contribution and support of Alumni and well-wishers like you have crucially helped this standing and stature. Our achievements in research, education, innovation, and entrepreneurship have also earned us the recognition of an 'Institute of Eminence' as well as the top position in the Atal Innovation Ranking from the Government of India.

IIT Madras is making an indelible mark in promoting and providing education to students from the length and breadth of India to areas beyond Indian territory, through her initiatives in rural developmental educational programs, international, interdisciplinary M.Tech courses, and online diploma courses. The popularity and reach of our online courses can be gauged by the fact that around 25000 students in ages ranging from 17 to 82, have enrolled for these courses across national boundaries, and about 30% are from rural India. The institute, in a first-ever initiative by an IIT, has consolidated its position on the world map by establishing her international campus in Zanzibar, Africa where about 45 students have been admitted to different programs.

Innovation and entrepreneurship are ingrained in all our endeavours – our ambitious ventures in rocket and space explorations, the development of lab-grown diamonds, hyperloop, the Brain Research Centre etc, are a testimony to this. The start-up ecosphere is also a reflection of this spirit, wherein last year, 70 startups came to fruition, successfully nurtured by our centres of excellence, the Centre for Innovation, Nirmaan – the pre-incubator, the Incubation Cell, technology centres such as 'IITM-Pravartak' at the IIT Madras Research Park and others. This year, our target is to incubate at least a 100 Start-ups in various sectors. It is expected that at least 20% of the passing out students will be proud CXOs of their own ventures! The year 2023 also saw 221 national and 105 international patents from our Institute and we are looking to closing this current financial year with 366 patents, to account for 'a patent a day'.

Towards promoting inter-disciplinary research and exploring new frontiers, a Department of Medical Sciences and Technology was launched in May 2023, a School of Sustainability in Oct 2023, a Department of Data Science and Artificial Intelligence in Nov 2023 and a new Interdisciplinary Dual Degree program on Quantitative Finance in Dec 2023 through the synergy of the departments of Management Studies, Computer Science and Engineering and Mathematics. Our School of Sustainability has signed MoUs for collaborations with Tel Aviv University, Israel and Technische Universität Dresden, Germany, with the aim of being recognized as a leader for sustainability teaching and research in the global south.

Lofty ambitions and achievements are impossible without the deep-rooted faith and support of alumni and well-wishers like yourself. We are indebted to you for your bountiful, impactful contributions and the faith reposed on us. On behalf of IIT Madras, I express my deepest gratitude for continuing to strengthen the Institute. Together with your support, we are confident of building an IIT Madras that is more inclusive, diverse, and seized of tomorrow's needs to be nationally and globally relevant.

Thank you!

Dean's Message



Prof. Mahesh Panchagnula

Greetings from the Office of Alumni and Corporate Relations!

Please accept my sincere appreciation for the unwavering support you continue to provide to IIT Madras. Your generosity is the cornerstone of our success, and we are truly grateful for your commitment to the causes that are important to the students and faculty of IIT Madras. This report is a testament to the profound impact your contributions have had –by transforming the lives of students, supporting research, augmenting Institute infrastructure, enhancing learning or through supporting other myriad causes. Your trust in us propels our ambitions, and we are committed to ensuring that your donations are utilized to their fullest potential.

In a world evolving rapidly in science and technology, we have set ambitious goals for ourselves. Your enduring enthusiasm and support provide fillip to our efforts. IIT Madras stands as a beacon of diversity, sustainability, innovation and research excellence. While we have transformed over the years, our commitment to being a premier institute in the country and abroad, remains steadfast, attracting the brightest minds from across the globe. I cordially invite you to visit the campus, witness first-hand the salutary impact of your contributions, and observe the Institute's growth and evolution over the years. Your generous gifts have made an incredible difference in our Institute's aspirations – Thank you! Your continued partnership is invaluable as we navigate the exciting journey ahead, shaping the future of India and the world together.



CAUSES CONTRIBUTED

Alumni Community Institute Chair

Godavari – Keep it Flowing

Women Leading IITM

1981 Batch Ruby Reunion – E Mobility Buses

V Ganesan Faculty Fellowship

ALUMNI COMMUNITY INSTITUTE CHAIR

Prof. R. Nagarajan (Department of Chemical Engineering) is the Alumni Community Chair Professor. After completing his 3- year term as Head of the Department of Chemical Engineering, Prof. Nagarajan has undertaken his sabbatical at Purdue University as Robert T. Henson Distinguished Visiting Scholar in the Davidson School of Chemical Engineering

During this stay, he has conducted a Seminar Series on "Contamination Control in High Purity Manufacturing" for Purdue faculty and students. He has presented a paper at the WOCA 2022 (World of Coal Ash) conference at Covington, Kentucky, and organized a Panel at the Deshpande Symposium in Cleveland, Ohio.



Achievements :

- Award for "Distinguished Service to Alumni" in IITMAA Sangam Confluence for Impact on Sep 29, 2018
- "Eminent Engineer Award" from the Institution of Engineers (India) in October 2018.
- He has won several awards, including the Outstanding Younger Member Award, Institute of Environmental Sciences and Technology (IEST), April 1990; Patent (# 5,879,578) Issue Award, March 1999 several IBM Innovation & Performance Awards and Team Awards, etc

Research Priorities :

- Coal beneficiation using the ultra-sonic fields
- Nano emulsions of plant oils used for cancer treatment
- Dust-repellent surfaces and coatings for building exteriors
- Doctoral Research:
 1. One Ph.D. thesis on "A comparative study to understand the effect of solvents, particle size and their role in the de-alkalization of coal was carried out" was defended in Jan 2020 (Dr. Srivalli Hariharan)
 2. 2 Ph.D.'s co-guided with Prof. T Pradeep on an industry-relevant project, and one External Ph.D.
- Post-Doctoral Research
Three post-doctoral Fellows are being mentored currently. They have developed a nano-scale emulsion of clove bud essential oil using a potent anticancer and antibacterial activity technique.

NOTE : Prof. Nagarajan retired during April 2024 and we are in the process of identifying a new occupant. Once identified an updated report will be sent.

GODAVARI - KEEP IT FLOWING

Quality of life inside the campus has always been the top priority at IIT Madras. Benevolent alumni of IITM have given back to the institute for the betterment of student on campus. IIT Madras aims to achieve world standards in renovations and development.

The renovated Godavari hostel was inaugurated on April 5th, 2024.

Below mentioned are the renovations done at all the three hostels:

1

Facelifting of corridors

2

Facelifting of restrooms

3

Facelifting of restrooms

4

Painting works and room renovation

All hostel facilities have undergone an extensive renovation revitalizing their appearance and amenities.

Dr. Krishna Chivukula (1970/MT/AE), Founder, Chairman. INDO MIM Ltd has majorly contributed towards Godavari hostel amongst other donors.

Godavari hostel was inaugurated by Dr. Krishna Chivukula's son, Mr. Krishna Chivukula Jr., CEO, INDO MIM Ltd, and Mr. Sridhara Ramachandran, VP Aerospace Solutions Group, INDO MIM Ltd (Godavite 1993/BT/CE) and other alumni from Godavari hostel



To view the hostel transformation video



GODAVARI HOSTEL PHOTOGRAPHS



WOMEN LEADING IITM

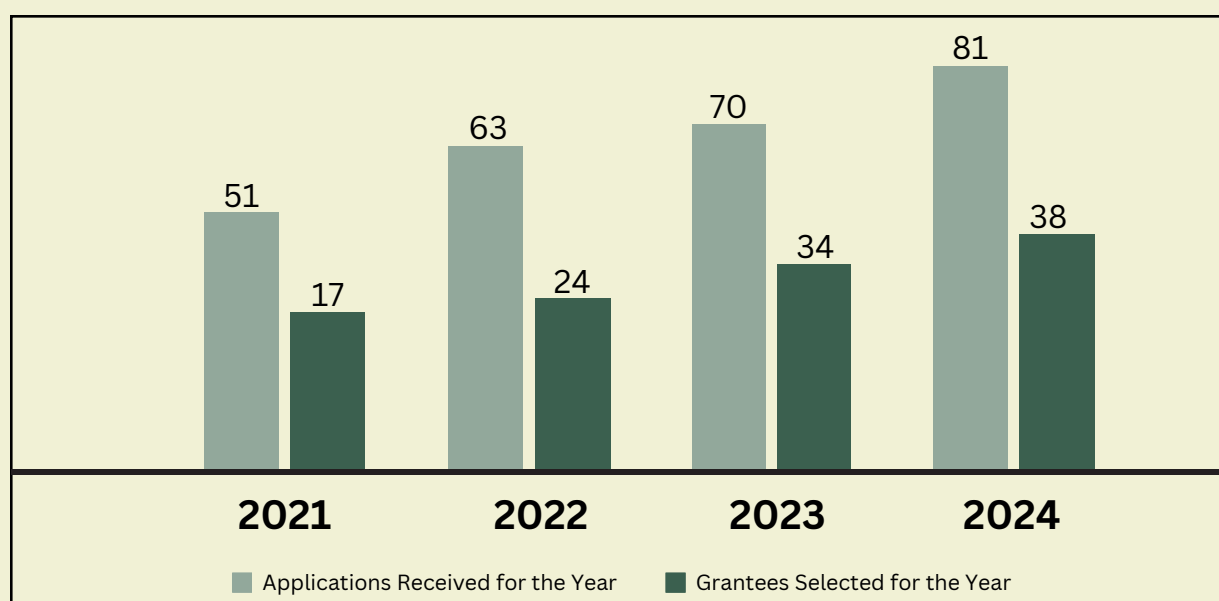
The goals of the 'Women Leading IITM' program are: Increasing the percentage of women faculty in Assistant Professorships to 20% from the current 15%; Generating 30% of all faculty applications from Women candidates; Grantees expected to graduate to leadership roles within IITM; Next-generation ambassadors for enabling a gender balanced IITM; Establish an award for Women Faculty in Leadership (Institute already has awards for staff in leadership and given the good presence of women in staff, many have been getting it over the years). Education is an important factor in empowering women. If women's empowerment in the true sense is ever to be realized, it could be only through education. Education brings prosperity not only to the woman and her family but also to the nation.

IITM has made considerable progress in improving the number of women students/ faculty & creating opportunities for success. IIT Madras launched the 'Women Leading IITM' (WLI) program on March -08th 2021 to boost women's leadership in science and technology. Launched in 2021, Women Leading IITM is a program to Nurture, Develop and Support women's talent at IITM along with their study/professional careers.

Objects pursued by the WLI program :

- ✓ Increasing the percentage of women faculty in Assistant Professorships to 20% from the current 15%
- ✓ Generating 30% of all faculty applications from Women candidates
- ✓ Grantees expected to graduate to leadership roles within IITM
- ✓ Next-generation ambassadors for enabling a gender balanced IITM
- ✓ Establish an award for Women Faculty in Leadership (Institute already has awards for staff in leadership and given the good presence of women in staff, many have been getting it over the years)

Statistics from 2021 - 2024



Some of the WLI Grantees for the year 2024 :



Sravani Potham
PhD Scholar
Chemistry Department

Uma R
Research Scholar
Dept. of Biotechnology



Bindu Pal
PhD Scholar
Metallurgical &
Materials Engineering

Athira K K
PhD Scholar
Department of Chemistry



Panidarapu P Priyanka
PhD Scholar
Electrical Engineering

Keerthana S
PhD Scholar
Dept. of Civil Engineering



Shanmuga Priya K
PhD Scholar
Department of Physics

Carol Blaizy Dsouza
PhD Scholar
Dept. of Humanities and
Social Sciences



Testimony from some of the grantees :

"This award will enhance a valuable opportunity for my professional growth and enabling me to inspire and empower more women in the field"

"This award supports me financially and is a great encouragement at the final stage of PhD"

"WLI award will support me in shaping my career in the photovoltaic(PV) industry and will push me to contribute to the realm of PV in India"

"This award will serve as a career accelerator for me, fueling my dedication to making meaningful change in STEM through diversity and innovation"

"The WLI award will boost my confidence and also give me the perseverance for the upcoming challenges in the research work"

1981 BATCH RUBY REUNION – E-MOBILITY BUSES

To advance the E-mobility initiative within the IIT Madras campus in furtherance of IITM's sustainability and carbon zero effects, the class of 1981 has generously contributed to the 5 air conditioned e-buses. The electric bus was officially launched on 25th March, 2024.



10 e-carts were purchased in 2023, and are currently being used inside the campus. This e-cart has been immensely useful to the students and faculty alike in moving around the campus. Visitors have also used it to enjoy the scenic beauty of the campus



V GANESAN FACULTY FELLOWSHIP

Dr. V. Ganesan, completed his M.Tech (1970) and PhD (1975) degrees in IC Engines and Gas Turbine Engineering at IIT Madras. After an illustrious career spanning some forty years Dr. V. Ganesan retired from IIT Madras in 2015 after graduating 41 PhDs, about 200 M.Tech and MS students, while mentoring scores of undergraduate students. He published some 444 scientific articles, authored three books on IC Engines, Heat Transfer, and Gas Turbines, and pursued research collaborations at Imperial College of Science and Technology and at Kyoto University.



Dr. Ganesan won many international acclaims including: becoming a Fellow of Society of Automotive Engineers SAE International, Fellow of Indian National Academy of Engineering, Fellow of Institution of Engineers (India) and Fellow of National Environmental Science Academy (India). He also received Life Time Achievement Award from the International Society of Energy, Environment and Sustainability for his valuable contribution in the area of energy and environment. Dr. Ganesan was also the founding member of SAE India where he served as a lifetime member since its inception.

LAUNCH OF DR. V. GANESAN FACULTY FELLOWSHIP



The Dr. V. Ganesan Faculty Fellowship was initiated to recognize junior star faculty who have demonstrated a very strong early-career trajectory in the field of Thermo-fluid Sciences through a combination of research excellence, impactful industrial consultancy, social impact, and patentable products along with an enthusiastic mentoring of IITM undergraduates and PGs to pursue higher academic pursuits and industrial careers.

The launch of the Dr. V. Ganesan Faculty fellowship was conducted on 06-06-2023 at the Central Lecture Theatre, IIT Madras. It was launched in the presence of Dr. Amrutur Anilkumar, Mr. G. Venkata Subramanian (Son of Late Dr. V. Ganesan), Mrs. Rajalakshmi (Wife of Late Dr. V. Ganesan), and Mrs. Aparna (Daughter of Late Dr. V. Ganesan).



RECIPIENT DETAILS



Dr. Pallab Sinha Mahapatra

Associate Professor

Department of Mechanical Engineering

ACADEMIC BACKGROUND

Ph.D. and B.E. from the Department of Mechanical Engineering, Jadavpur University in 2014 and 2007 respectively.

RESEARCH INTERESTS :

- ▶ Surface engineering and wettability patterning
- ▶ Open surface microfluidics
- ▶ Multiphase flow
- ▶ Single and multiphase heat transfer

Dr. Pallab Sinha Mahapatra has over 10 years of rich educational and research experience. He has published more than 50 papers in various National and International journals.

Patents obtained by Dr. Pallab Sinha Mahapatra

- High-sensitivity molecularly imprinted polymer based glucose sensor
- A system and method for efficiently transferring heat from a heat source
- Single cell patterned substrate, method, and applications thereof
- A device to displace and remove liquids for thermal and humidity management, and a method thereof
- A 3D device for multiple colorimetric detections
- 3D Paper-based microfluidic device for detecting multiple adulterants in liquid foods
- Hanging drop cell culture followed by pulse laser assisted high throughput intracellular delivery
- A method and device for moving and distributing aqueous liquids at high rates on porous, nonwoven substrates
- Wettability-patterning method and designs to pumplessly and precisely manipulate liquid volumes in porous materials

List of Projects

S. No	Project Title	Role	Sponsor/ Funding Agency
1.	Engineered surfaces for heat transfer and microfluidic applications	PI	IIT Madras
2.	Precision nanoengineered, wettability patterned surfaces with potential applications in energy and healthcare	PI	SPARC
3.	Development of wettability-patterned soft surfaces for enhanced condensation	PI	SERB ECRA
4.	Performance improvement and GUI development of PINAK CODE	CI	BRNS
5	Enhancement of boiling and condensation in minichannels through durable wettability-patterned surfaces	CI	SERB CRG
6.	Experimental Studies on the Performance Enhancement of Pulsating Heat Pipe used for the Application of Microprocessor cooling	CI	DRDO



WE ARE GREATFUL TO
YOU &
YOUR FAMILY

Mr. K Suresh



We express our heartfelt gratitude for your continued and generous support to IIT Madras throughout the years. We trust that you take great pride in your bond with IIT Madras and the unwavering dedication it has demonstrated towards academic and research excellence since the time of your association.

Your invaluable contributions, alongside the support of your family, have played a pivotal role in facilitating this remarkable growth. We are privileged to have you and your family walking with us along this journey. We extend our best wishes to you and your family. We thank you for your continued support to your alma mater



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