



INDIAN INSTITUTE OF TECHNOLOGY MADRAS
OFFICE OF ALUMNI AND CORPORATE RELATIONS

Celebrating the generosity of

Prof. Marti G Subramanyam



Impact of your giving in

2024



Director's Message

Greetings!

IIT Madras continues to retain her top position for the ninth 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!

-Prof. Kamakoti Veezhinathan, Director, IITM



Dean's Message

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.

-Prof. Mahesh Panchagnula, Dean, Alumni & Corporate Relations, IITM



**"GIVING IS NOT JUST ABOUT
MAKING A DONATION –
IT'S ABOUT
MAKING A DIFFERENCE"**

Prof. Marti G Subramanyam

1967/BT/ME


Distinguished Alumni Awardee of 2024

Charles E. Merrill Professor of Finance, Economics and International Business

Leonard N. Stern School of Business, New York

Marti G. Subrahmanyam is the Charles E. Merrill Professor of Finance, Economics and International Business in the Stern School of Business at New York University, and Global Network Professor of Finance at NYU Shanghai. He holds a degree in mechanical engineering from the Indian Institute of Technology, Madras, and a post-graduate diploma in business administration from the Indian Institute of Management, Ahmedabad. Both institutions conferred on him their Distinguished Alumnus Award. He earned a doctorate in finance and economics from the Massachusetts Institute of Technology.

Professor Subrahmanyam has been a visiting professor at leading academic institutions in Australia, England, France, Germany, India, Italy, and Singapore, including the Goethe University of Frankfurt, Einaudi Institute of Economics and Finance and Università Guido Carli LUISS, in Rome, ESSEC, and INSEAD, near Paris, the Indian Institute of Technology, Madras, and the Indian Institute of Management, Ahmedabad, London Business School, University of Konstanz, Germany, National University of Singapore, Singapore Management University, Churchill College, Cambridge University, the Paris School of Economics, the University of Melbourne, and the Università Ca' Foscari, Venice. He has taught extensively on executive programs in over twenty countries around the world.



Srimathi Marti
Annapurna
Gurunath Award
for Excellence in
Teaching

Marti Mannariah
Gurunath Institute
Chair

Alumni
Endowment Fund

Srimathi Marti Annapurna Gurunath Award for Excellence in Teaching

Srimathi Marti Annapurna Gurunath Award for Excellence in Teaching is generously endowed by IIT Madras Alumnus, Prof. Marti Subramanyam (Stern School of Business, New York University), serves as a tribute to the cherished memory of his beloved parents Mr. Gurunath & Smt. Marti Annapurna. The award presentation was scheduled for the Institute Day.

The award delivers a medal, citation and certificate to teachers voted by the students for consistent teaching performance. So far 14 beneficiaries benefitted through this award.

Gratitude note of 2024 Awardee:



Prof. Joe Thomas Karackattu
Associate Professor
Dept of Humanities and Social Sciences

"The award reaffirms my belief in my efforts to make teaching and learning interesting for my students. It validates the years of input that went into teaching bright young students at our Institute. While recognition is always special - more importantly it creates a new set of benchmarks for me to introspect and see which is the next milestone I should work towards. Special thanks to the Institute for this recognition, and especially Prof Marti Subrahmanyam's family for instituting this award"



Prof. Shaligram Tiwari
Professor
Dept of Mechanical Engineering

"I feel honoured on receipt of this award. It is indeed a great encouragement. I am sure there are many good teachers who will get inspired to do better. Of course for myself the passion and interest for teaching will only grow. I offer sincere thanks and express gratitude to the donor".

Marti Mannariah Gurunath Institute Chair



Prof. Raghunathan Rengaswamy



Dean, Global Engagement, IIT Madras



Marti Mannariah Gurunath Institute Chair Professor



Department of Data Science and Artificial Intelligence



Department of Chemical Engineering, IIT Madras



Co-Founder, Director

- Gyan Data Pvt. Ltd., IITM Research Park
- Gitaa Pvt. Ltd., IITM Research Park
- Elicius Energy Pvt. Ltd., IITM Research Park, Chennai

Research Interests

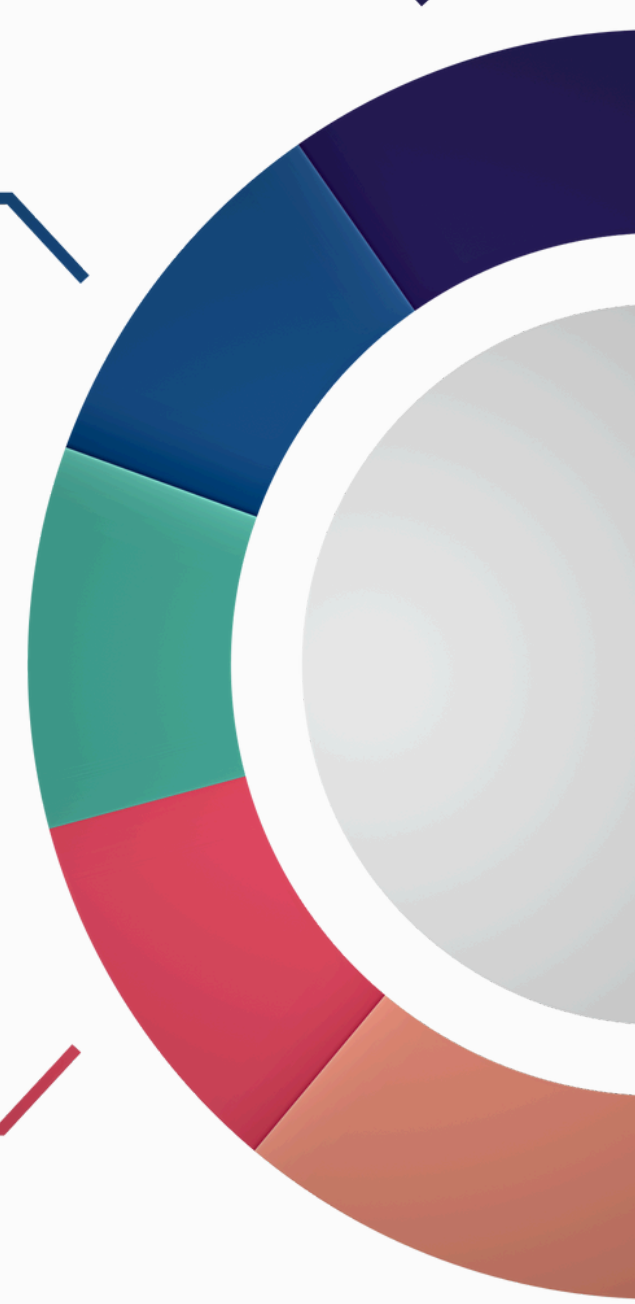
Machine Learning and AI algorithms

Systems Biology

Droplet Microfluidic Systems

Fuel Cell and Battery Technologies

Distributed monitoring of environmental parameters



Honors and Awards

- ▶ The Institution of Engineers (India) Eminent Engineer Award, 2023
- ▶ Marti Mannarriah Gurunath Institute Chair Professor, From April 2019
- ▶ YBG Varma Award for Excellence in Teaching, IIT Madras, 2018
- ▶ Fellow, Indian National Academy of Engineering, 2017
- ▶ Graham Faculty Research Award, Clarkson University, 2006
- ▶ International Federation of Automatic Control (IFAC) Best Paper Prize, 2002-2005, for the paper "Application of Signed Digraphs-Based Analysis for Fault Diagnosis of Chemical Process Flowsheets " in Engineering Applications of Artificial Intelligence Journal in the category - Application-oriented paper on Symbolic AI Approaches (Co-authors Mano Ram Maurya and Venkat Venkatasubramanian)
- ▶ Omega Chi Epsilon, Professor of the Year Award (Chemical Engineering), Clarkson University, 2003.
- ▶ Indian National Academy of Engineering (INAE) Young Engineer Award for the year 2000 awarded to outstanding engineers by the Academy
- ▶ Guided a project "Qualitative Simulation in Process Engineering" that was selected by the Indian National Academy of Engineering (INAE) for award as one of the most innovative projects at the Bachelor's level (all disciplines), 1999.
- ▶ David Ross Fellowship while at Purdue, USA, 1991-1993.
- ▶ Awarded Undergraduate Merit scholarship while at IIT Madras, 1986-1990.

Editorial/Advisory/Policy Activities

- ▶ Audit of Niti Aayog Data Governance Quality Index (DGQI) Framework 2024
- ▶ Internationalization of Higher Education in India, Niti Aayog policy report 2024
- ▶ Jury member CII Industrial AI awards 2023
- ▶ Jury member for GITA Global Technology Development Awards 2021
- ▶ Board Member, IITM Foundation, USA
- ▶ Member, Board of Trustees, IIT Madras Alumni Charitable Trust
- ▶ Advisor, CII for their Center of Excellence in Data Science and AI
- ▶ Member CII International Liasons Sub-committee, Southern Region
- ▶ Core member, DST-PAC, Chemical and Environmental Engineering
- ▶ Task Force Member, Department of Biotechnology, India 2014 - 2017
- ▶ National Research Council Member, NMRL, Ambarnath, India
- ▶ International Programming Committee, ADCHEM 2015, Whistler, Alberta, Canada
- ▶ International Programming Committee, DYCOPS 2013, Mumbai, India

Editorial/Advisory/Policy Activities

- ▶ Co-guest-editor for an issue on “Data Analysis: Methods and Applications” in International Journal of Advances in Engineering Sciences and Applied Mathematics, 2012.
- ▶ Co-guest-editor for an issue on Fuel Cell Technologies in International Journal of Hydrogen Energy (IJHE), 2011.
- ▶ Associate Editor for the AIChE section of the American Control Conference, Seattle, USA, 2008.
- ▶ Technical Program Committee, 2nd International Symposium on Resilient Control Systems, Idaho Falls, Idaho, Aug 11-13, 2009.
- ▶ Technical Program Committee, 3rd International Symposium on Resilient Control Systems, Idaho Falls, Idaho, 2010.
- ▶ International Advisory Committee, Fuel Cell Technologies, FUCETECH 2009, Mumbai, Indi

Books

- ▶ R Rengaswamy, B Srinivasan, NP Bhatt, “Process control fundamentals: analysis, design, assessment, and diagnosis”, CRC Press, FL, USA, 2020.
- ▶ R Rengaswamy, R Suresh, “Data Science for Engineers”, CRC Press, FL, USA, 2022

Alumni Endowment Fund

General Alumni endowment fund has been contributed by the 1985, 1986, 1987, 1988, 1978 batch, other alumni and well-wishers. The purpose of this endowment is to use the annual interest accruals, to fund initiatives that will have a key transformational impact on the Institute and keep it as a world-class institution of technological advancement. The interest accrued from the financial year 2023-24 is used for the below causes

Travel Grant to Students and Faculty

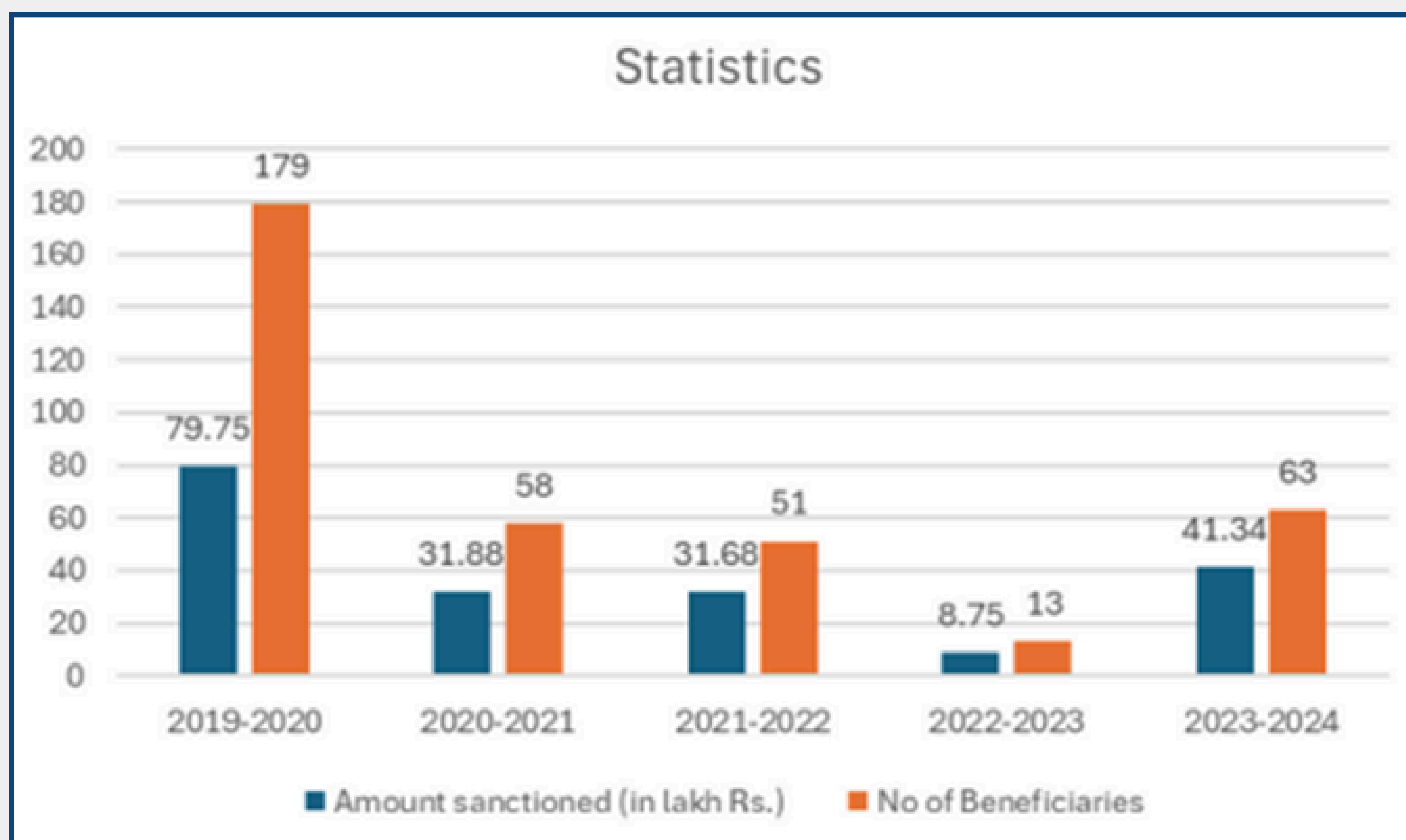
Video Productions and Virtual Classroom Meetings

Travel Grant to Students and Faculty

The goal of this travel grant is to facilitate the professional development of undergraduate and graduate students/research scholars and faculty by supporting their travel for attending professional meetings.

This also supports exchange programs, summer schools, and joint doctoral programs which provide an opportunity for the recipient to present his/her own research. This enables recipients to interact with peers and established scientists, which also helps develop professional contacts to facilitate their career development.

Statistics for the past 5 years



Vinodhini S
Ph.D/ AM Dept

I am writing to express my profound gratitude for the travel grant. This travel helped me to attend and present my research work internationally. It also helped me to meet a lot of student researchers and professors from all over the world and keep myself updated in this field.

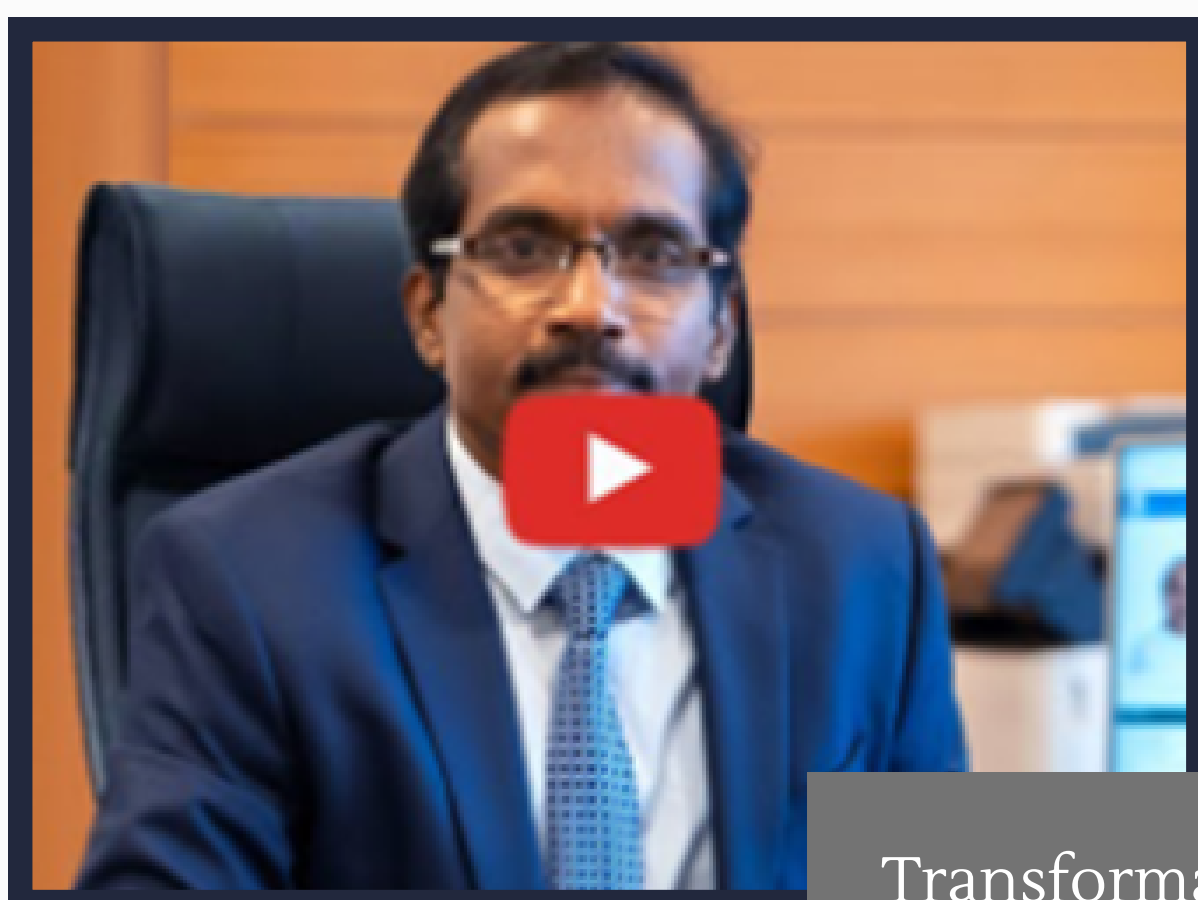


Prithvi Raj
B.Tech/ ME Dept

I am incredibly grateful for your support which made my trip to the Anatolian Rover Challenge in Turkey possible. Interacting with the judges and other international teams gave me valuable insights on how to improve the rover in the coming year. This experience not only sharpened my problem-solving abilities but also fuelled my passion for robotics. Overall, I learned a lot and had fun along the way so I sincerely thank you.

Video Productions and Virtual Classroom Meetings

Technical assistance and execution of lecture & events videos were provided by video productions and virtual classroom meetings team at IIT Madras. Few video links are given below:



Transformative Leadership in Urban Governance

by Shri G. Mathi Vathanan [1988/MT/ME], IAS, Additional Chief Secretary, Housing & Urban Development Department, Government of Odisha on April 22, 2024



Founding Story and Journey of Perplexity: A Conversational Search Engine

By Dr. Aravind Srinivas, Co-founder & CEO, Perplexity on
January 18, 2024



Women Leading IITM

Event on Mar 7th , 2024

We are grateful to you and
your family

Prof. Marti G Subramanyam

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



Indian Institute of Technology Madras, Chennai 600036

www.iitm.ac.in

For more information, please contact:

Office of Alumni and Corporate Relations

T: +91-44-2257 8390 | www.acr.iitm.ac.in



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