

Thuli

Newsletter from IITM Pravartak Technologies Foundation

IITM Pravartak is funded by the Department of Science and Technology, Government of India, under its National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS) and hosted as a Technology Innovation Hub (TIH) by IIT Madras. The NM-ICPS is a comprehensive Mission aimed at complete convergence with all stakeholders by establishing strong linkages between academia, industry, Government, and International Organizations.

Message From the Chairman

As we move towards a connected world, cyber-physical systems are bound to take the center stage. A cyber-physical system typically has a sensor, that senses domain - specific data. Data from the sensors are collected by an edge device which does some amount of processing. Data processed by many such edge devices are communicated to an aggregator and many such aggregators in turn send the data to a cloud wherein certain decisions and data analytics could be done. The entire process involves multiple disciplines of engineering starting from Material Science, Electronics, Electrical, Mechatronics, Mechanical, Ocean Engineering, Computer Science and many others. IITM Pravartak Technologies Foundation is a Technology Innovation Hub concentrating on the most important aspects of a cyber-physical system namely Sensors, Networking, Actuators, and Control Systems (SNACS). SNACS forms an integral part of any cyber-physical system. We, at IITM Pravartak Technologies Foundation are working with a goal to have hundreds of entrepreneurs working with us in multiple areas of SNACS, developing solutions for our Country. We believe that this will be a disruptive effort bringing a major change to our socio-economic landscape of our country.



Thematic Areas



We are committed to transforming the frontiers of knowledge. Our start-up ecosystem is the nurturing space of brilliant professionals, Innovative entrepreneurs, curious young talent, and inquisitive students. With world-class infrastructure, equipment, and experienced mentors, we have everything to offer for the technology hungry brains.



Vision

To become the supreme self-supported business and Technology Innovation Hub in the domain of Sensors, Networking, Actuators and Control Systems.



Mission

To bring together the best ideas in each of these fields under a single umbrella to arrive at cutting-edge products with Unique Selling Points related to the area of SNACS in Cyber Physical Systems.



National workshop on Technology Innovation Cyber-Physical Systems (TIPS)



Department of Science & Technology conducted a National workshop - TIPS on 6th & 7th May, 2022 hosted by IITM Pravartak Technologies Foundation at ICSR, IIT Madras. All 25 Technology Innovation Hubs under its National Mission participated in this workshop. NMICPS magazine and web portal (<https://nmicps.in/>) were launched during the workshop.

Released Call for Proposals under the following schemes

- PRomotion and Acceleration of Young and Aspiring technology entrepreneurS (PRAYAS) Scheme: The scope of PRAYAS is to support Idea to Prototype and aims to address gaps in the very early stage of idea/proof of concept.
- Seed Support System Scheme (SSS): The scheme caters to prototype stage financing for the commercialization of indigenous ideas, innovations, and technologies.
- Dedicated Innovation AccELerator (DIAL) Scheme: The scope of DIAL helps fast-tracking a start-up through focused intervention.



Town Hall Meeting, Second Edition

Conducted second Town Hall meeting on April 25, 2022 to brief details of IITM Pravartak operations to IITM Faculty and other limited audience.



IITM Pravartak Technologies Foundation has been supporting initiatives of Asha including taking Asha Kanini to the government schools as well as the Rural Technology Centres. Prof. Pijush Ghosh from the Department of Applied Mechanics, Prof. Abhijit Deshpande from the Department of Chemical Engineering, Prof. Richa Agarwal from the Department of Management Studies and Dr. Balaganesan from the Central Workshop Facilities visited RTCs.

Courses Launched

CADFEM **ansys** ELITE CHANNEL PARTNER IITM **PRAVARTAK** CATALYZING INNOVATION

ANSYS & CADFEM - Advanced Certification Program in Hybrid Electric Vehicle Engineering, Autonomous Vehicle Engineering and Engineering 5G

REGISTER NOW

ELECTRIFICATION

ADAS

5G

COURSE HIGHLIGHTS

- 4 Months Live Interactive Online Program
- Classes handled by Professors from IIT Madras
- Premium Access to Ansys Licenses, Cloud Access and Ansys Learning Hub
- Capstone Project and much more

9182561930 marketing@cadfem.in

OUT OF THE BOX THINKING THROUGH MATHEMATICS

Free skill development course from IIT Madras to nurture young minds

Conducted By IITM PRAVARTAK TECHNOLOGIES FOUNDATION

Register Now →

Course on Next Generation Mobile Wireless Networks

This course will enable the participants to conceptualize, design and build solutions leveraging the next generation mobile wireless networks.

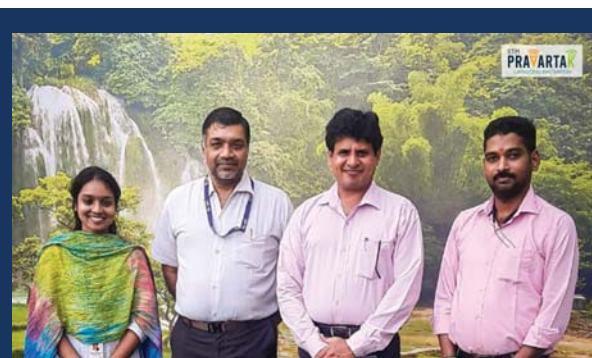
5G

Register Now ↓

For More Details: <https://www.pravartak.org.in/next-generation-mobile-wireless-networks.html>



Prof. V. Kamakoti, Director of IIT Madras & Prof. Sadagopan Rajesh, Mathematician describes the scope & advantages of the "Out of Box Thinking Through Mathematics" Course.



Dr. JBV Reddy from Department of Science and Technology visited IITM Pravartak Technologies and had a discussion with management.



Conducted a meeting for an overview of Cadfem & Ansys, Advance Certification Program on Electric Vehicle, Autonomous Vehicle & 5G, on May 02, 2022 at IITM Research Park.



Completed a Systems-Level Networking Course 3-month corporate technical training for freshers.



As a part of Digital Telemedicine demo project, free health screening & awareness camp for 221 people above the age of 50 was conducted by Rotary Club of Chennai Hallmark funded by BNY Mellon in association with IITM Pravartak Technologies Foundation at Kumizhi, Mettupalayam and Othivakkam, Hasthinapuram village from 25th - 27th May 2022.

**Email: enquiry@pravartak.net
Website: <https://www.pravartak.org.in>**

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