

# Thuli

## Newsletter

IITM Pravartak Technologies  
Foundation

Vol1, Issue1, Q1, FY 23-24



## About

IITM Pravartak Technologies Foundation 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.

# About

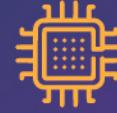
## Thematic Areas



Sensors



Networking



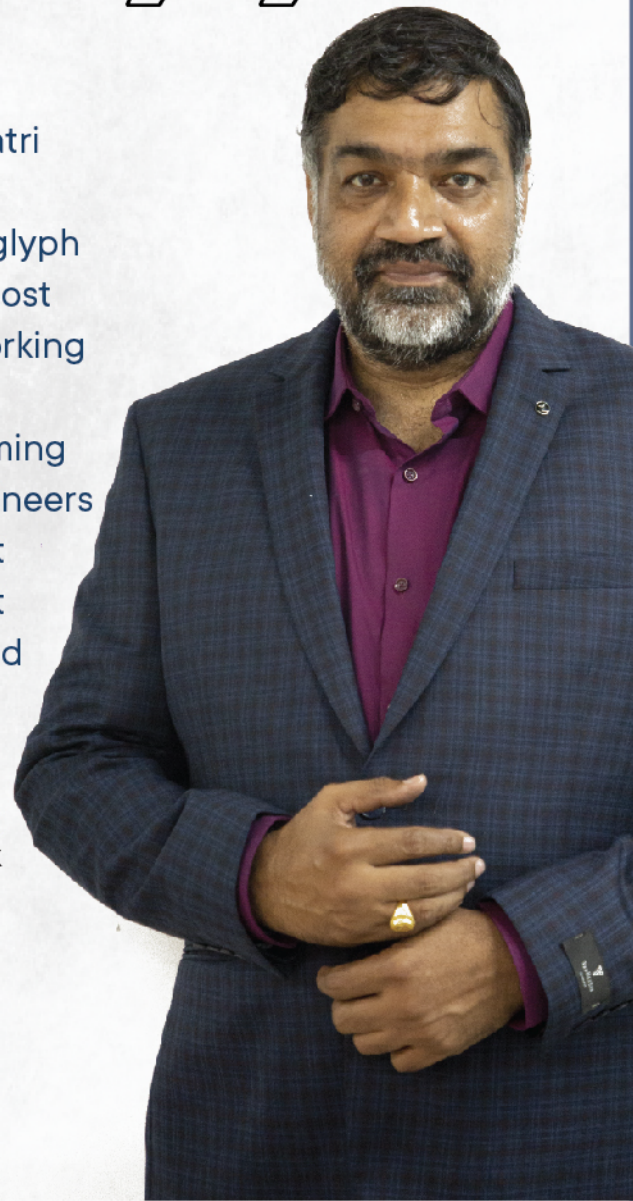
Actuators



Control Systems

As we enter the fourth year of this mission, IITM Pravartak is happy to announce its involvement in a Project of National importance, that involves documentation of the Konkan petroglyphs; along with IIT Madras, IIT Hyderabad, JNU, and Nisargyatri Sanstha, Ratnagiri. The project involves digital documentation and reporting for declaring petroglyph locations as world heritage sites. In line with our host Institute's policy "IITM for All", we have started working with educational institutions in Tamil Nadu to encourage entrepreneurial talent. With the upcoming recession in the IT sector, we are now skilling engineers in deep tech and tying up with leading placement organizations for targeted placements. In the next three quarters, our focus will be on technology and standard development in our core areas.

**- Dr. M. J. Shankar Raman**  
CEO of IITM Pravartak



## Announcements:

# Annou



GKK Consultants (Malaysia) visited IITM Pravartak to explore possibilities of working together in skilling, incubation and technology transfer. GKK Consultants Sdn Bhd is a leader in professional training and certifications across the ASEAN region.



The Center for Quantum Information, Communication and Computing (CQuICC), IITM Pravartak and IBM organised an Industry Day at the IIT Madras Research Park, showcasing the quantum computing research and application development expertise.



Dr. M. J. Shankar Raman - CEO of IITM Pravartak launched the "NIDHI EIR," and distributed awards to top performers on 22<sup>nd</sup> "SASTRA University Day" at SASTRA Deemed to be University, Thanjavur.

# OOBT



Launched Level 3 and Level 4 of the "Out Of The Box Thinking Through Mathematics", a free online course offered by IITM Pravartak.

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“The Levels 1 and 2 of the ‘Out of the Box Thinking’ course, which is first-of-its-kind in India, were well-received by students across India. This course is being offered free of cost. This course will greatly benefit School and College students, especially those residing in rural India. Thinking differently is crucial for innovation leading to entrepreneurship. Training the young mind to think differently, will in the long run yield creative youth for our nation.”

**- Prof. V. Kamakoti**  
Director of IIT Madras



OOBT

## Events:

# EVENTS



IITM Pravartak showcased its activities, products, skill development programmes during the 2<sup>nd</sup> National Workshop on Technology Innovation in Cyber-Physical Systems (TIPS) held at the IIT Delhi.



IITM Pravartak presented its activities and products to Shri. Tarun Kapoor, Adviser PMO India, and Shri. Hari Ranjan Rao, Addl Secy PMO India on the 3<sup>rd</sup> day of 2<sup>nd</sup> National Workshop on Technology Innovation in Cyber-Physical Systems (TIPS) held at the IIT Delhi.



A Student Innovation Program “Aqua Regna” an initiative of IITM Pravartak with Atal Innovation Lab and Cognizant Technologies was nominated to represent the State of Punjab at the National Technology Week 2023 and showcased the project to the Hon'ble Prime Minister Shri. Narendra Modi and Hon'ble Defence Minister Shri. Rajnath Singh.

# WORKSHOP

We and our partners Emicro Labs and Netrin Sports Technologies Pvt Ltd, participated and showcased our products in the National Technology Week 2023, “School to Startups: Igniting Young Minds to Innovate.” inaugurated by our Honourable Prime Minister Shri. Narendra Modi at Pragati Maidan in New Delhi.



## MoUs:



IITM Pravartak & Simplilearn joint hands to offer a skilling program in the full stack of MERN (Mongo DB, Express, ReactJS, Node) for designing end-to-end SNACS applications. This program is offered to “early to mid-career practitioners” & will be launched in September 2023.



IITM Pravartak and L&T Edutech got into a partnership to offer industry oriented courses in core-engineering and IT/ITES space. This partnership also focuses on faculty development programmes and will conduct through leadership conferences and webinars.



IITM Pravartak signed an MoU with Whizhack Tech Pvt. Ltd. The association will entail joint research to develop breakthrough products to detect, predict and mitigate attacks on Cyber-Physical Systems and to build OT security solutions with the ‘Made in India’ Shakti Chip.



IITM Pravartak signed an MoU with Centre for Innovation (CFI), IIT Madras to enable a mechanism by which IITM Pravartak acts as a catalyst and bridge for technology transfer, licensing and other instruments for technologies and solutions developed at CFI to be commercially applied.



IITM Pravartak signed an MoU with McINDEEZ CONSULTANCY WLL, Kingdom of Bahrain. McINDEEZ will promote skill development courses offered by Digital Skills Academy & IITM Pravartak in Bahrain and the Gulf Cooperation Council region.



IITM Pravartak signed an MoU with Waycool Foods and Products Private Limited, Chennai, to bring innovative solutions in the Farm to food space leveraging expertise in sensors, logistics and data science solutions.



IITM Pravartak signed an MoU with Hydrocarbons Pvt. Ltd., Chennai, to offer Advanced Certification Program in "Applied Petroleum Engineering and Hydrogen Energy" for professionals and students in India and abroad, in hybrid format.



IITM Pravartak signed an MoU with KCG College of Technology, Chennai, to enable a mechanism by which IITM Pravartak acts as a catalyst and bridge for technology transfer, licensing and other instruments for technologies and solutions developed at KCG technology

# MOU

# SIGNED



IITM Pravartak signed an MoU with Crion Learning Private Limited to offer the “Data Analytics Career Experience Program”, “Understanding Metaverse Workshop Program” and “Data Analytics Career Dive Program” for the engineering students.



IITM Pravartak and Diamondpick entered into a strategic partnership to upskill talents and deploy them in leading industries.



IITM Pravartak signed an MoU with JB Educational Society (JBES). JBES will promote courses offered by IITM Pravartak to their students.



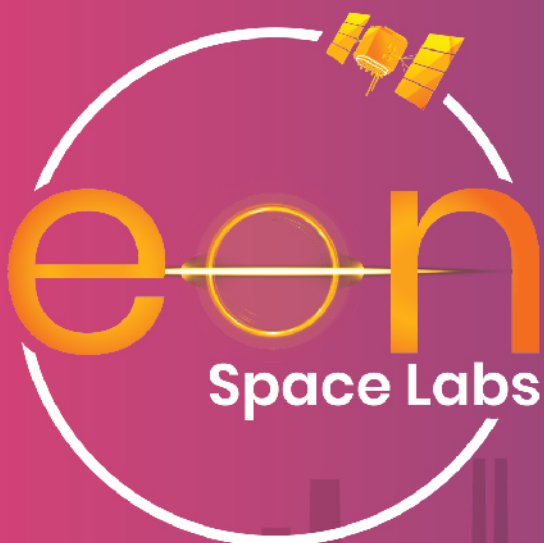
## Startups Incubated:



**AERPOD**

FLH KLEANAIR AND KLEAN ENERGY INDIA PRIVATE LIMITED.

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EON SPACE LABS PRIVATE LIMITED.

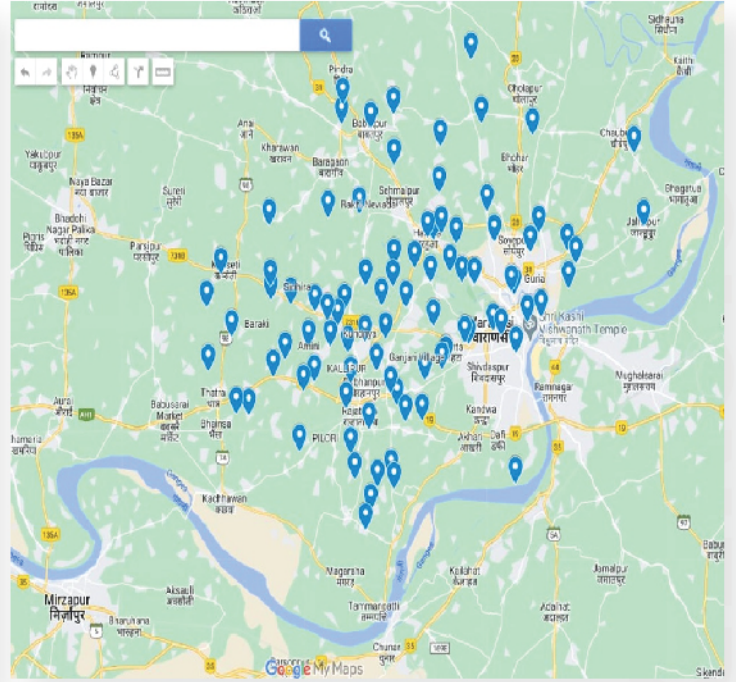
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# “Scientific Investigation, Digital Documentation and Conservation of Petroglyphs of Konkan”.

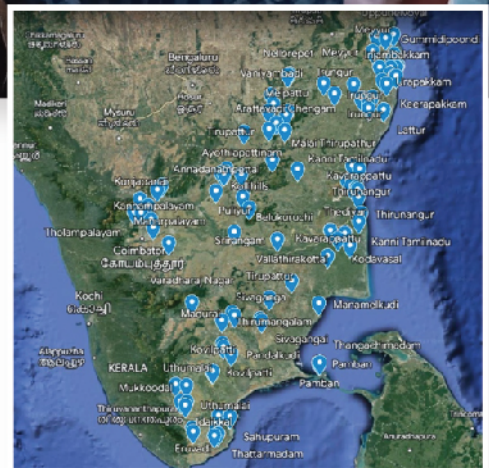
IITM Pravartak, along with IIT Madras, IIT Hyderabad, JNU and Nisargyatri Sanstha has started working on a project of National Importance to document the Petroglyphs of Konkan. The project is funded under the Science and Heritage Research Initiative (SHRI) of the Department of Science and Technology.



# Rural Interaction Centers



We are happy to announce that, we have successfully launched 89 Kalvi Shakti Centers in Tamil Nadu and 100 Vidya Shakti Centers in Varanasi, UP.



# VIDYA SHAKTI

The logo is a square with rounded corners, featuring a white background with a blue border. It contains the text "RISC-V" in a bold, black, sans-serif font at the top. Below it, "CTB" is written in a larger, bold, black, sans-serif font, with a small red bug icon integrated into the letter 'C'. Underneath "CTB", the phrase "capture the bug" is written in a smaller, black, sans-serif font. At the bottom of the logo, the year "2023" is displayed in a bold, black, sans-serif font. The logo is set against a background of glowing blue circuit lines and nodes.

RISC-V

CTB

capture the bug

2023

"RISC-V Capture The Bug Processor Verification Hackathon", a Digital India RISC-V (DIR-V) initiative, jointly organized by RISC-V International and the Ministry of Electronics and Information Technology, mentored by the IIT Madras and IITM Pravartak, technically facilitated by Vyoma Systems to get started with RISC-V and processor design verification.



<https://www.pravartak.org.in>

