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ATAL INNOVATION MISSION



Atal Incubation Centre – PEC Foundation

Puducherry Technological University

Supported by Atal Innovation Mission (AIM), NITI Aayog, Government of India.
PTU Campus, Puducherry – 605 014



NEWSLETTER

January 2025



www.aicpecf.org

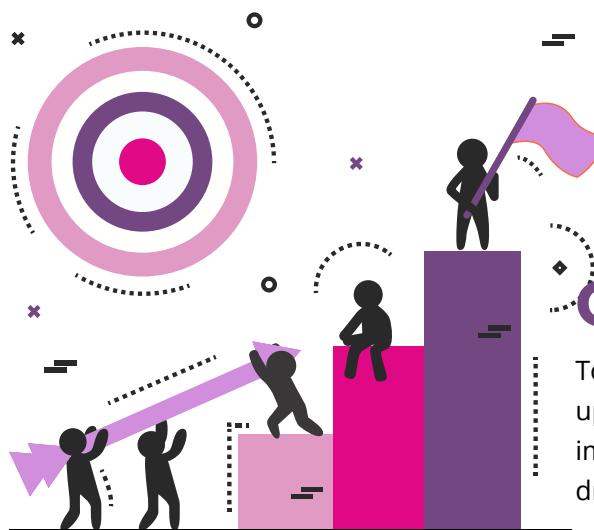
*Creating an Instinctive
Start-Up Ecosystem*

/aicpecf



About AIC-PECF

Atal Incubation Centre - Pondicherry Engineering College Foundation (AIC-PECF) is fully supported and funded by the Atal Innovation Mission (AIM), Niti Aayog , and Government of India. AIC-PECF was initiated to provide a platform to assist and enable young entrepreneurs to initiate start-ups for the commercial exploitation of technologies developed by them. AIC-PECF also enables the budding entrepreneurs to showcase and test their abilities to run a start-up business in the areas of Electronics Design and Manufacturing (EDM), Internet of Things(IoT), and Unmanned Aerial Vehicle (UAV).



Our Vision

To provide world-class incubation support for Start-ups that promotes technological innovations to improve People's lives, generate employment and drive the sustainable growth of the Indian economy.

Our Mission

To facilitate and enable innovators to pursue their own ideas and converting it into a successful venture To build a holistic partnership among the stake holders and create a sustainable Start-up ecosystem.

To promote and inculcate the habit of innovation among the student community and thereby fostering future Start-ups.



Overview of **ACCOMPLISHMENTS** in **JANUARY 2025**



01 ECOSYSTEM
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ECOSYSTEM EXPANSION

Strengthening the Ecosystem with Fresh Innovators
07/01/2025

AIC-PECF is delighted to onboard four dynamic startups, each driving innovation in IoT, visual effects, industrial automation, and precision engineering. These ventures bring cutting-edge solutions that address industry challenges, enhance efficiency, and create new opportunities in their respective domains.

Aquila Innovations



Aquila Innovations leverages IoT to provide seamless, mobile-based control over power systems, enhancing operational efficiency, reducing downtime, and ensuring reliable power management. Their Greet Card technology enables real-time tracking of tourists, optimizing visitor flow, improving crowd management, and enhancing overall tourism experiences with data-driven insights.

Pixel Visual Effects Pvt Ltd



P I X L
V F X

Pixel Visual Effects is a boutique FX studio specializing in Houdini, where a skilled team creates complex effects with precision, delivering captivating visuals on time and to the highest quality standards. They are now expanding into gaming and VFX production, blending innovative technology with creative expertise to craft immersive and visually stunning experiences.

ECOSYSTEM EXPANSION

Shree Vishagan Controls Pvt Ltd



Shree Vishagan Controls Pvt. Ltd. manufactures low-voltage switchgear panels, motor starters, and ITCT metering panels for water supply distribution projects and Drainage Boards. They also specialize in manufacturing ACB panels, transformers, control panels, and motor control center panels customized to meet specific project requirements.

Sree Dakshna Enterprises Pvt Ltd



Sree Dakshana Enterprises Pvt. Ltd. manufactures flow control valves and accessories, ensuring equal water distribution in tanks. They are dealers of electromagnetic flow meters, valves, fittings, and custom ductile and cast iron specials based on customer requirements.

ACADEMIC PARTNERSHIPS

MoUs Signed with Academic Institutions to Strengthen Innovation and Entrepreneurship

AIC-PECF is committed to strengthening the **entrepreneurial landscape across Puducherry** through sustained academic collaborations. In a significant step towards **fostering innovation and entrepreneurship**, AIC-PECF has signed **Memorandums of Understanding (MoUs)** with multiple academic institutions in **January 2025**, expanding its reach to **Karaikal, Yanam & Mahe**. These MoUs mark a **formal collaboration** aimed at **supporting entrepreneurial initiatives, facilitating knowledge exchange, and creating joint programs**. By extending its presence beyond Puducherry to **Karaikal, Yanam & Mahe**, AIC-PECF is enabling students and faculty in these regions to actively engage in **startup activities, mentorship programs, and industry-driven innovation**.



**Women's Polytechnic College,
Karaikal – 03/01/2025**



**Karaikal Polytechnic College,
Karaikal – 03/01/2025**



**Indira Gandhi Polytechnic College,
Mahe – 21/01/2025**



**Mahatma Gandhi Government Arts
College, Mahe – 21/01/2025**

This initiative is a **crucial step in decentralizing the startup ecosystem**, ensuring **aspiring entrepreneurs from all parts of Puducherry, including Karaikal, Yanam & Mahe**, have access to the right support, mentorship, and incubation opportunities.

Ecosystem Outreach Initiatives

Strengthening Startup Ecosystem Through Outreach Awareness Program on Entrepreneurship (03/01/2025 to 30/01/2025)

Atal Incubation Centre - PEC Foundation (AIC-PECF), in collaboration with the **Directorate of Industries and Commerce (DIC) & Directorate of Higher and Technical Education (DHTE)**, is driving an initiative to **promote entrepreneurship and support early-stage startups** among students and aspiring innovators. This outreach program is designed to provide a structured understanding of the **entrepreneurial journey, incubation process, and funding opportunities**, enabling young minds to transform ideas into scalable ventures.

By actively engaging with **Higher Education Institutes** across **Puducherry, Karaikal, Mahe, and Yanam**, the initiative focuses on:

Entrepreneurship Process – From ideation to execution, covering market validation, business model development, and growth strategies.

Startup Development – Building a sustainable venture, achieving product-market fit, and scaling operations.

Incubation Support – Providing access to mentorship, prototyping facilities, networking opportunities, and industry partnerships.

Funding & Investment – Insights into government grants, venture capital, angel investments, and financial planning.

Next Steps: Technical Workshop & Entrepreneurial Bootcamp

To further expand this initiative, **AIC-PECF** have planned to conduct a series of **Technical Workshops and Entrepreneurial Bootcamp**, equipping students with both **technical skills and business acumen**.

With this initiative, **AIC-PECF** is committed to **nurturing innovation and fostering a thriving startup ecosystem**, empowering students with the **skills, knowledge, and resources** needed to create impactful ventures.

Ecosystem Outreach Initiatives

**Women's Polytechnic College,
Karaikal - 03/01/2025**



**Karaikal Polytechnic College,
Karaikal - 03/01/2025**



**Pandit Jawaharlal Nehru College of
Agriculture and Research Institute
Karaikal -03/01/2025**



**Indira Gandhi Polytechnic College,
Mahe – 21/01/2025**



**Mahatma Gandhi Government
Arts College, Mahe – 21/01/2025**



**Bharathidasan Government
College for Women,
Puducherry – 22/01/2025**



Ecosystem Outreach Initiatives

**Kasthurba College for Women,
Villianur,
Puducherry – 25/01/2025**



**Rajiv Gandhi Arts and
Science College,
Puducherry – 27/01/2025**



**Kasturba Gandhi Nursing
College, Puducherry - 27/01/2025**



**Motilal Nehru Government
Polytechnic
College, Puducherry – 28/01/2025**



**Sri Manakula Vinayagar Engineering College,
Puducherry - 28/01/2025**



TECHNICAL CAPACITY BUILDING PROGRAMS

Build & develop your own ARDUINO Board
on 06/01/2025 to 11/01/2025

Atal Incubation Centre-PEC Foundation (AIC-PECF), in collaboration with **IFET College of Engineering**, successfully conducted a hands-on "**Build & Develop Your Own ARDUINO Board**" workshop from **January 6, 2025, to January 11, 2025**. Over **148 students**, divided into three batches, participated in this two-day training designed to enhance their knowledge of **Embedded Systems and Hardware Development**.

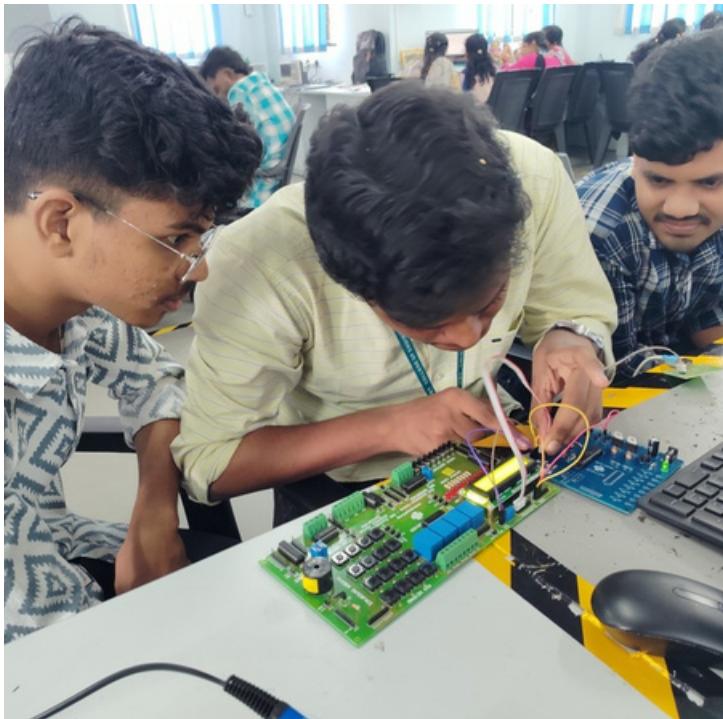
Students gained **practical experience** in designing and assembling their own **ARDUINO boards**, learning key skills such as **Prototyping, Soldering for permanent assemblies, and testing with Oscilloscopes**. By integrating **Sensors, Actuators, and Microcontrollers**, they developed real-time data acquisition and control systems, strengthening their expertise in **Embedded Technology**.

This initiative is part of AIC-PECF's **commitment to empowering students**, having already trained **680+ young innovators** through **workshops and internships**. The training provided a **structured learning approach**, guiding students from basic **Soldering and Board Assembly** to **Programming Syntax, Sensor Interfacing and Library Creation**, laying a strong foundation for **Future Innovations** in embedded systems.

These activities enhanced their technical proficiency, problem-solving capabilities, and familiarity with industry-standard practices, bridging the gap between academic concepts and practical applications.

TECHNICAL CAPACITY BUILDING PROGRAMS

Build & develop your own ARDUINO Board
on 06/01/2025 to 11/01/2025



TECHNICAL CAPACITY BUILDING PROGRAMS

Puducherry Drone Startup Nevar Systems Pvt Ltd Executes "Build & Fly Your Own Drones" Workshop – 06/01/2025 to 09/01/2025

Drones are revolutionizing industries, from **Aerial mapping** and **Surveillance** to precision **Agriculture and Disaster Management**. To equip students with hands-on expertise in this transformative technology, **Atal Incubation Centre – PEC Foundation (AIC-PECF)**, in collaboration with **IFET College of Engineering**, organized an intensive "**Build & Fly Your Own Drone**" workshop, which was executed by **Puducherry-based drone startup Nevar Systems Pvt Ltd** from **January 6, 2025 to January 9, 2025**. The training provided **146 students** with practical knowledge in **Drone Assembly, Programming**, and flight operations, fostering a deeper understanding of UAV technology.

The workshop followed a structured curriculum covering **UAV Fundamentals, Drone Electronics, and Real-Time Flight Testing**. Students engaged in **Hands-on Assembly and Prototyping**, learning how to integrate **Flight Controllers, Sensors, and Propulsion Systems**. By combining both hardware and software aspects of drone systems, participants gained a **strong foundation in Aerodynamics, Control Mechanisms, and Autonomous Flight Operations**.

This initiative is part of AIC-PECF's larger vision of **Nurturing Technological Innovation**, having now trained over **1,429 students in Drone Technology, Embedded Systems, and Real-World Prototyping**. The training emphasized **Problem-Solving and Innovation**, preparing students for applications in **Aerial Surveying, Precision Agriculture, Disaster Management, and Defense Technologies**.

By fostering hands-on learning and strengthening academia-industry collaborations, **AIC-PECF and IFET College of Engineering** continue to empower the next generation of UAV professionals, bridging the gap between theoretical knowledge and real-world applications.

TECHNICAL CAPACITY BUILDING PROGRAMS

Puducherry Drone Startup Nevar Systems Pvt Ltd
Executes "Build & Fly Your Own Drones" Workshop –
06/01/2025 to 09/01/2025



EVENTS ORGANIZED

Two Days People's Education Programme on Rural Industrialization – 28th & 29th January 2025

Atal Incubation Centre - PEC Foundation (AIC-PECF), in partnership with the **Khadi and Village Industries Commission (KVIC)** – Ministry of MSME and **Puducherry Technological University**, organized a two-day awareness program aimed at fostering entrepreneurship and sustainable employment. The event focused on educating students and aspiring entrepreneurs about the **Prime Minister's Employment Generation Programme (PMEGP)** and various business opportunities in rural and urban sectors. The sessions provided valuable insights into **startup development, government support schemes, and practical approaches to business growth**.

The first day, **28th January 2025**, featured entrepreneurial competitions designed to encourage creative thinking and business innovation. Students participated in an **Essay Competition on Entrepreneurship**, sharing their perspectives on innovation and economic growth. Meanwhile, the **Pitching Competition** provided a platform for budding entrepreneurs to present their startup ideas, receive valuable feedback, and refine their concepts for future execution. The engaging sessions helped participants gain a deeper understanding of **business ideation and validation**.

On **29th January 2025**, the event continued with expert-led discussions on entrepreneurship and business development. Speakers, including **KVIC officials and university leaders**, emphasized the importance of entrepreneurship in driving economic progress. **Dr. S Mohan, Vice-Chancellor, Puducherry Technological University**, addressed the gathering, emphasizing the crucial **role of academia in nurturing entrepreneurial mindsets and driving innovation** through research and industry collaboration. **Mr. L Madhankumar Reddy, Deputy Chief Executive Officer (S2), KVIC, Bengaluru**, graced the event as highlighting **KVIC's initiatives for small businesses**. **Dr. R. Sundaramurthy, Registrar i/c, PTU** highlighted the significance of **academia collaboration** in creating a thriving **startup ecosystem** and encouraged **young minds to leverage institutional resources for business development**. **Mr. B.N. Suresh, State Director I/C, KVIC, Chennai** spoke impact of government schemes in facilitating small business growth and encouraged aspiring entrepreneurs to explore **KVIC's various funding and support opportunities**.

Thiru R. Vasi Rajan, Deputy Director, KVIC, led a session on **KVIC Schemes for Business Development**, outlining various **Government Initiatives for MSMEs and Startups**. **Dr. Sivakumar N, Professor at Puducherry Technological University**, conducted an insightful session on **Business Risk Analysis**, focusing on risk assessment and mitigation strategies crucial for business sustainability. Additionally, **Mr. Nadesan M**, an experienced **apiculturist**, introduced **Honey Bee Cultivation** as a profitable business opportunity, highlighting its role in sustainable entrepreneurship. **Mr. Vishnu Varadan, CEO, AIC-PECF**, elaborated on the **role of AIC-PECF** in strengthening the Puducherry startup ecosystem, emphasizing its efforts in supporting **early-stage entrepreneurs and fostering innovation**. The event concluded on a high note, inspiring participants to explore new business avenues and take proactive steps in their entrepreneurial journey.



EVENTS ORGANIZED

Two Days People's Education Programme on
Rural Industrialization – 28th & 29th January 2025



OTHER ENGAGEMENTS

AIC-PECF Pongal Celebrations 2025

AIC-PECF celebrated Pongal 2025 with joy and tradition on **January 13, 2025**, bringing together **incubated startups, team members, and the AIC-PECF community** to embrace the spirit of **gratitude, prosperity, and new beginnings**. The festivities included **colorful kolams (rangoli), traditional Pongal cooking in clay pots, and joyful gatherings**, creating a vibrant and festive atmosphere. Everyone came together to share the significance of the harvest festival, strengthening bonds and celebrating with enthusiasm. With warmth, cultural spirit, and festive cheer, the **Pongal celebration at AIC-PECF** was a memorable occasion, marking the beginning of another year filled with growth and success.



RABIES TRACKING WEB & MOBILE APP COMPLETION FOR ACADEMIC PARTNER BY DESIGN CLUB,PTU

Atal Incubation Centre - Pondicherry Engineering College Foundation (AIC-PECF) continues to foster **tech-driven innovation** by supporting the **Rabies Tracking Web & Mobile App Project**, developed for the **Rajiv Gandhi Institute of Veterinary Education and Research (RIVER)** by the Design Club students of Puducherry Technological University. This initiative reflects the growing role of **digital solutions in public health**, empowering researchers and veterinary professionals with real-time disease tracking capabilities.

Leveraging **Flutter** for a seamless cross-platform experience, the project integrates a **mobile application and an admin dashboard**, enabling efficient **data collection, visualization, and case management**. With a focus on **precision tracking and early detection**, this tool enhances response strategies, contributing to improved disease control and prevention.

By bridging **technology and healthcare**, this initiative underscores the potential of **student-led innovations** in addressing real-world challenges. AIC-PECF remains committed to nurturing impactful ideas that drive meaningful change in **public health and veterinary sciences**.



STARTUPS SPOTLIGHTS

Startup's Spotlight:

Success Stories, Milestones, Partnerships & Growth

Startups Shine at National Startup Day in Delhi

AIC-PECF-incubated startups made a remarkable impact at the prestigious National Startup Day in Delhi, showcasing groundbreaking innovations and reinforcing their commitment to driving India's entrepreneurial ecosystem forward. Representing the incubator were **Phycore Technologies**, **SpaceTug**, and **Future Gurukuls Edutech**, actively contributing to the celebration of nine years of fostering innovation, technological advancements, and economic progress.

Startup Spotlights

Exor Robotics Pvt Ltd

Demonstrated its expertise at the "Science and Technology for Sustainable Future" initiative, held during the Regional and State-Level Science Exhibition in Puducherry. The event emphasized knowledge dissemination, hands-on learning, and fostering scientific curiosity among students.



SpaceTug

SpaceTug, a deep-tech startup in space sustainability, has been selected as a national finalist in the Boeing BUILD 4.0 competition. Their innovative robotic arm and satellite constellation for active debris removal impressed judges at the Karnataka Regional Finale. Now, they gear up to compete at the National Finale in March 2025!



Aeeda Pvt Ltd

Engaged in a thought-provoking panel discussion on rural entrepreneurship at Siddaganga TBI, SIT. The company highlighted its IoT-powered smart irrigation solutions, reinforcing the role of technology in transforming agriculture.



Jesvid Cryo Technologies Pvt Ltd

Celebrated four years of excellence in cryogenic technology, growing from a two-member team to a workforce of over 66 employees, marking significant progress in its industry.



Future Gurukuls Pvt Ltd

Strengthened its footprint in education by partnering with RPM Academy Gorakhpur to establish an AI and Robotics lab. They secured a government contract worth 4`2 lakh from Chhattisgarh, further expanding its impact.



E-Royal Tech Pvt Ltd

Secured a 50` lakh sanction letter from Axis Bank under the SBB CGTMSE Limit, reinforcing its financial foundation for future expansion and operational growth.



SACDEEIL Aerospace Pvt Ltd

Engaged with investors at the Go Global Summit in Chennai, fostering strategic partnerships to propel its aerospace innovations onto a global stage.



Microbear Applied Sciences Pvt Ltd

Progressed in LED technology by producing samples of multiple LED variants, catering to increasing demand from small-scale clients.



Local Helper

Strengthened its market presence by participating in the Indo-French Entrepreneurs Meet "Greet & Meet" and advancing discussions with Hopsticks to expand its B2B service offerings.



Widezo Pvt Ltd

Announced a strategic partnership with Zakya, a leading POS software by Zoho, further extending its reach. They successfully completed a high-impact project for a multi-branch pharmacy client in Pondicherry.



ATL'S EMPOWERMENT

SIP Pitching Session 07/01/2025:

The **ATL Student Innovator Program (SIP) 2024**, an initiative by **Atal Innovation Mission (AIM)**, concluded successfully with a dynamic pitching and evaluation session. Designed to nurture entrepreneurial talent among school students, SIP provided participants with a structured innovation journey—from problem identification and prototyping to business strategy development. Throughout the program, students received expert mentorship, technical guidance, and bootcamp training to refine their ideas and transform them into viable solutions.

The final phase of the program, held on 07/01/2025, featured **nine schools** presenting their pitch decks to an esteemed jury panel. This milestone event marked the culmination of months of rigorous preparation, including prototype testing, business model refinement, and mock pitching sessions. The jury provided valuable feedback to enhance market viability, ensuring students left with stronger, investment-ready solutions. The event not only celebrated innovation but also reinforced AIM's commitment to fostering a new generation of young entrepreneurs.

Target audience:

Category	Percentage
Students	40%
Industries and corporates	35%
Government	25%

Photodiode Placement: Two photodiodes are positioned on opposite sides of the panel, detecting light intensity from different directions.

Signal Processing: The Arduino compares the readings from the photodiodes, determining the sun's direction.

Servo Control: Based on the signal difference, the Arduino adjusts the servo motor, rotating the panel toward the stronger light source.

MOBILE CONTROL
LS COMPONENTS:
Arduino uno
HC-05 module
LEDs
Motor driver
Servo

ELU
Activating
COMPONENTS:
Arduino uno
LCD
Soil moisture sensor
Smoke sensor
DHT sensor
Motor driver
Pump

Security
COMPONENTS:
ESP 8266
Buzzer
IR sensor
Ultrasonic sensor
LDR sensor
Flame sensor

Project Day + Selfie Application

HOME AUTOMATION

Let's chat! Only you and Dr B. Hema Kumar can see your message

To: Dr B. Hema Kumar Write a message to Dr B. Hema Kumar

KNOWLEDGE SHARING FOR ATL Empowerment

Knowledge sharing is the backbone of innovation, and **Atal Tinkering Labs (ATLs)** thrive on collaborative learning. By fostering an environment where ideas, experiences, and expertise are exchanged, ATLs empower students to **explore, experiment, and excel** in emerging technologies.



Through **peer learning, expert mentorship, and hands-on discussions**, students gain deeper insights into **STEM, robotics, AI, and IoT**. Knowledge-sharing initiatives not only enhance technical skills but also cultivate **critical thinking and problem-solving abilities**, preparing young minds for real-world challenges.

By enabling **open discussions, project showcases, and technical sessions**, ATLs create a **strong innovation-driven community** where learning is continuous, accessible, and impactful. These efforts ensure that knowledge is not just acquired but **shared, refined, and applied**, paving the way for a brighter, technology-driven future.



PRESS / MEDIA COVERAGE

Puducherry-based startup SpaceTug reaches final at national-level contest

Bosco Dominique / TNN / Feb 4, 2025, 20:13 IST



PUDUCHERRY: SpaceTug, a Puducherry-based deep-tech startup focused on space sustainability, has reached the finals of the prestigious national-level Boeing BUILD 4.0 competition.

The company's solutions for active debris removal and in-orbit servicing, featuring a unique robotic arm and satellite constellation, captured the attention of judges from the Indian Institute of Science (IISc) and Boeing at the [Karnataka](#) Regional Finale.

SpaceTug is now set to compete against the nation's most promising startups at the national contest in March 2025. The team will showcase their technology and vision for a sustainable space environment to a panel of industry experts and investors.

SpaceTug's selection as a national finalist highlights the company's potential to revolutionise the space industry with its unique approach to space debris mitigation and in-orbit servicing. This recognition positions SpaceTug for further growth and development, paving the way for potential partnerships, investment and national acclaim.

Source : [Times of India](#)





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