

Atal Tinkering Laboratory (ATL) – Annual Report 2025

PM SHRI KENDRIYA VIDYALAYA No.3, PORT TRUST, KOCHI

Introduction

The Atal Tinkering Laboratory (ATL) of **PM SHRI Kendriya Vidyalaya No.3, Port Trust, Kochi** continues to be a vibrant hub for creativity and innovation. During the academic year **2025**, the ATL team organized a series of carefully planned programs and workshops designed to foster scientific temperament, hands-on learning, and multidisciplinary collaboration among both students and teachers.

The highlights of the year are as follows:

1. STEAM Training by Steamcube

Date: 5 June 2025

Venue: PM SHRI KV NAD Aluva

A capacity-building workshop on **STEAM (Science, Technology, Engineering, Arts and Mathematics)** education was conducted by **Steamcube** for five teachers of the Vidyalaya:

- Mrs. Vrinda S – PGT (Computer Science)
- Mr. Shine C V – TGT (Work Experience)
- Mrs. Jancy Mathew – TGT (Mathematics)
- Mrs. Swapna Sudhakaran – TGT (Science)
- Mrs. Rejitha P R – TGT (English)

The workshop focused on leveraging **Large Language Models (LLMs)** to prepare project documentation and to support project development. Emphasis was laid on creating a **multidisciplinary project**, encouraging each teacher to contribute their subject expertise.

Steamcube also launched an **online training platform** to provide continued guidance. On successful completion, participating teachers will be awarded a **STEAM Certificate**, endorsing their competence in integrating emerging technologies into classroom projects.





2. STEAM Week Celebration

Dates: 14 – 18 July 2025

The Vidyalaya observed an inspiring **STEAM Week**, during which a series of activities engaged students and faculty alike:

- **STEM Quiz** to test and enhance scientific curiosity.
- **KAPILA Orientation Program** to create awareness among members of the **School Innovation Council**.
- **DIY Kit Training** followed by a **demonstration for the entire school**, encouraging hands-on experimentation and peer learning.

This week-long celebration ignited a spirit of exploration and collaboration among young innovators.

STEM QUIZ



KAPILA ORIENTATION PROGRAMME



DIY KIT TRAINING

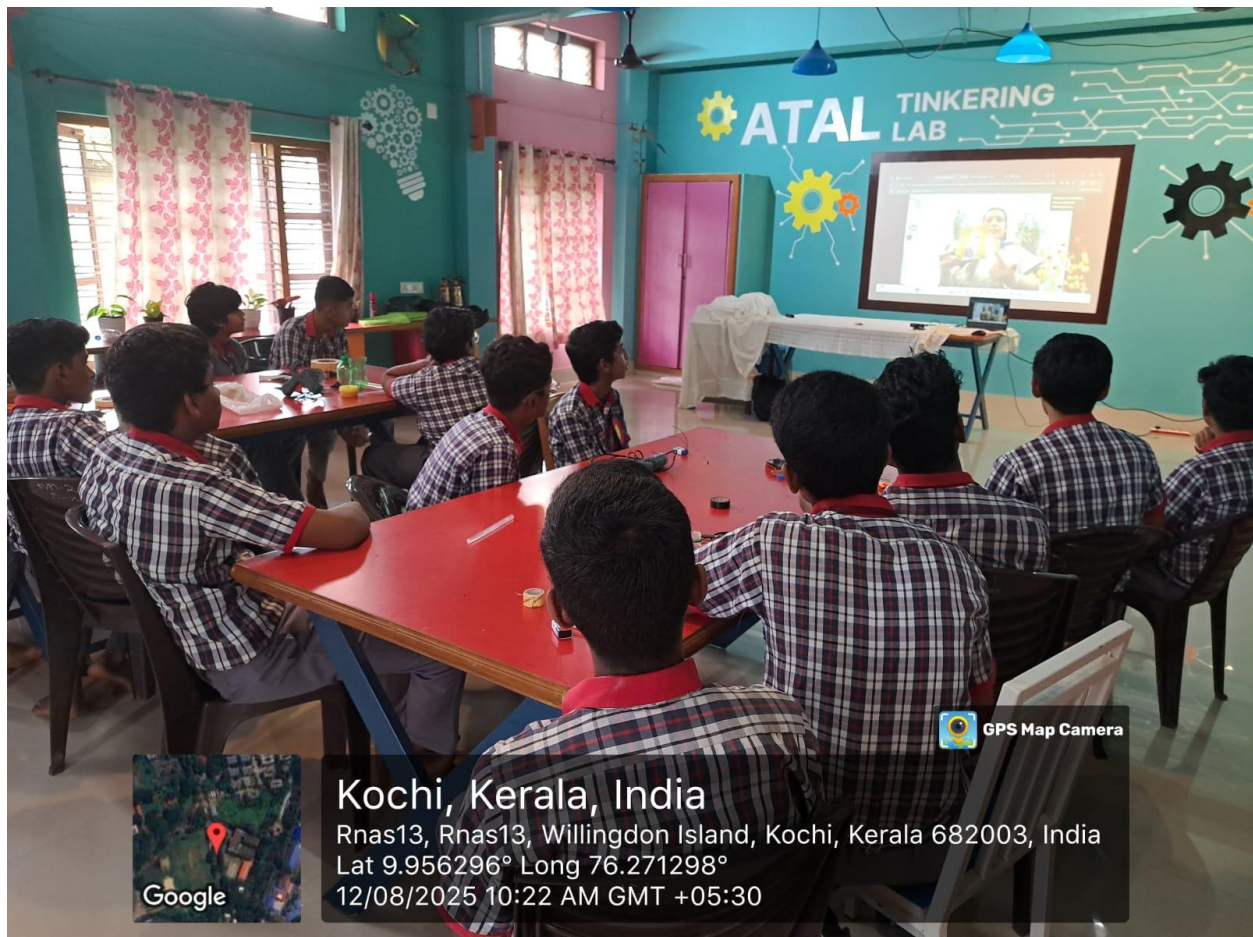




3. Mega Tinkering Day

Date: 12 August 2025

Under the guidance of **Atal Innovation Mission (AIM)**, students participated in an **online training session** on building a **working vacuum cleaner** using simple materials. This engaging activity helped children experience the joy of practical learning while applying scientific concepts to real-life problems.



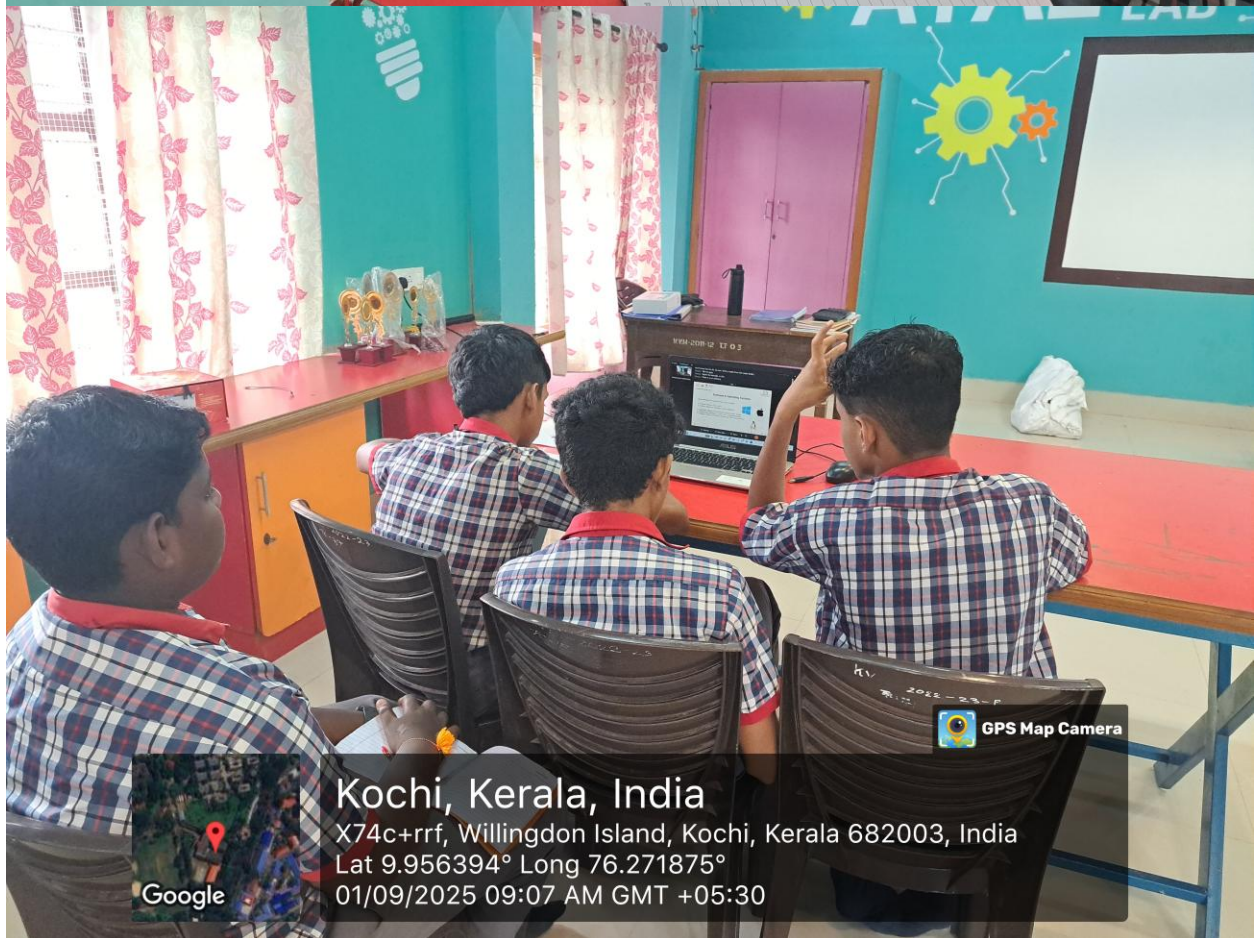
4. AI Vidyasetu 1.0

Dates: 1 – 4 September 2025

Four teams from the Vidyalaya were registered for **AI Vidyasetu 1.0**, a training program conducted by **IIT Delhi** focusing on **Artificial Intelligence (AI)** and **Machine Learning (ML)**.

Students gained valuable exposure to emerging AI technologies, enhancing their ability to design intelligent, real-world solutions.





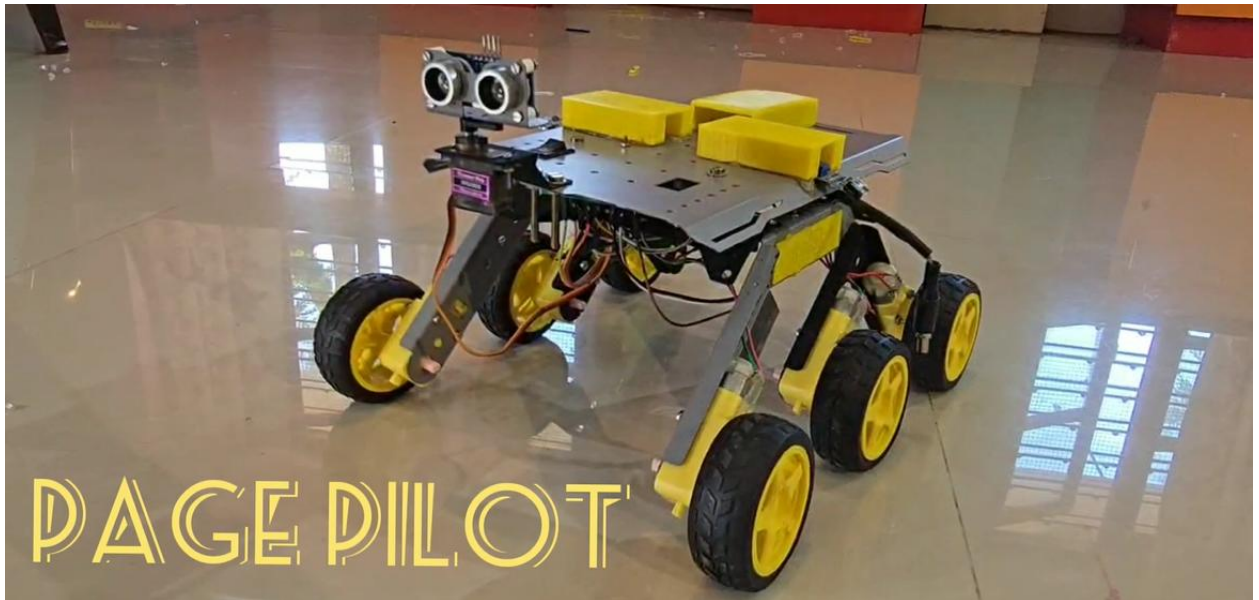
5. AI Tinkerfest 2025

Date: 20 September 2025

Venue: KV NAD Aluva (Ernakulam Region)

Two students, **Master Ahmed Nazeem** and **Master Ayushman**, represented the school in the **AI Tinkerfest 2025**. Their innovative projects were:

1. **PagePilot** – a **notebook delivery robot** designed to automate distribution of study materials.



2. **Exam Cheater Detector** – an application that uses **computer vision** to identify unfair practices during examinations.

Both projects showcased creativity and technical skill, reflecting the growing confidence of our young innovators in the field of AI.

Conclusion

The year 2025 has been a remarkable journey of **innovation, collaboration, and learning** for PM SHRI K V No.3, Port Trust, Kochi. The activities under the Atal Tinkering Laboratory not only nurtured **scientific curiosity** among students but also empowered teachers to integrate **cutting-edge technologies** in their teaching practice.

With continued guidance from the **Atal Innovation Mission**, the ATL of our Vidyalaya remains committed to creating **future-ready innovators** and fostering a strong culture of **scientific inquiry and problem-solving**.