

## **ATAL Summer Camp 2026 Report**

The ATAL Summer Camp 2026 was successfully conducted in our school ATL Lab for students of Classes 6 to 12 under the guidance of K. Yuva Santhi. The camp aimed to encourage innovation, creativity, scientific thinking, and problem-solving skills among students through practical activities and smart technology projects.

The main theme of the camp was “Smart Village”, where students explored modern technological solutions for improving village life in areas such as smart homes, smart security, transportation, and environmental protection.

### **Objectives of the Camp**

- To introduce students to smart technologies and innovation.
- To develop creativity and teamwork among students.
- To create awareness about sustainable village development.
- To encourage practical learning through model making and coding activities.
- To improve students’ scientific and technical skills.

### **Activities Conducted:**

#### **Introduction and Team Formation:**

- Introduction to ATAL Summer Camp and Smart Village concepts.
- Formation of teams with students from Classes 6–12.
- Discussion on village problems and innovative smart solutions.
- Idea generation and planning activities.

#### **Students worked on:**

- Automatic light systems using IR sensors.
- Smart security door systems using touch sensors and servo motors.
- Smoke alert system with buzzer.
- Automatic Street lights with LDR and Ultrasonic sensor to save the power.
- Automatic traffic light system.

#### **Learning Outcomes:**

- Understanding sensors and automation.
- Basics of electronics and coding.

#### **Technologies Used:**

- Arduino UNO
- IR Sensor
- Ultrasonic Sensor
- Servo Motors
- LEDs and Buzzers
- Smoke Sensor
- Touch sensor
- LDR sensor

#### **Skills Developed:**

- Innovation and Creativity
- Coding and Programming Basics
- Circuit Designing
- Teamwork and Leadership

- Communication Skills
- Problem Solving

**Conclusion:**

The ATAL Summer Camp 2026 conducted in the school ATL Lab for students of Classes 6–12 was highly successful and educational. Under the guidance of K. Yuva Santhi, students actively participated in hands-on activities and developed innovative Smart Village models. The camp enhanced students’ practical knowledge, confidence, creativity, and interest in science and technology.

The school sincerely thanks the management, and students for their valuable support and participation in making the camp a grand success.



