

## **ATAL SUMMER CAMP 2024-2025**

DDMS AMS P. OBUL REDDY PUBLIC SCHOOL organised Atal Summer Camp for the children of classes IX, X, XI and XII to equip new skills for Innovation. The Summer Camp which was attended by 6 students continued for 12 days, from 2<sup>nd</sup> May, 2024, to 17<sup>th</sup> May,2024. It engaged students in different activities under the guidance of the Atal Incharge,Ms. K. Yuva Santhi.

### **OBJECTIVES OF THE CAMP:**

- To engage the children in various activities.
- To give them an opportunity to learn new things.
- To provide an even platform for all the children to explore and express their creativity.

### **DETAILS OF THE ACTIVITIES OF THE CAMP:**

#### **❖ SMART GLASSES:**

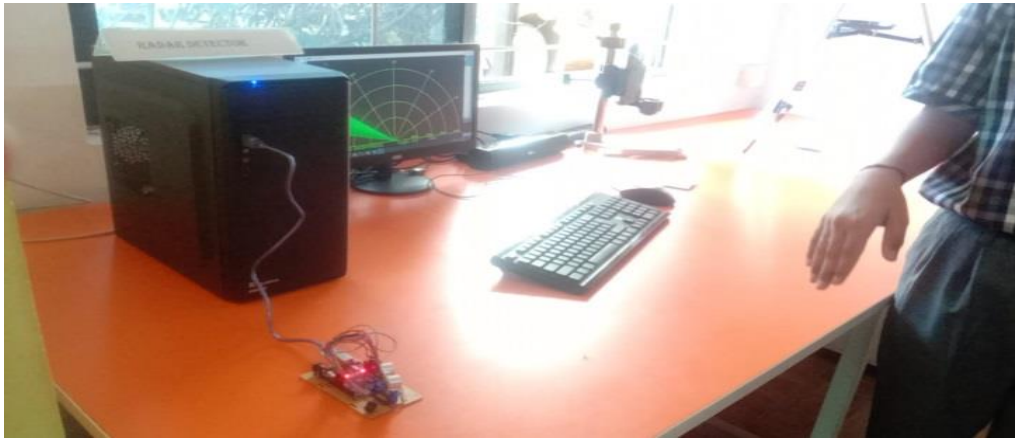
These smart glasses which can tell you about how far or near the object is in front of you. It can make a huge impact in the lives of blind people.



#### **❖ RADAR DETECTOR:**

Detect any object that comes in the range of this radar with ultrasonic sensor and Arduino . The ultrasonic sensor is mounted on a servo motor which rotates sideways. The sensor scans the area within its distance.

If there is no object in a specified range, let's say that, there is nothing in front of the sensor at about a distance of 40cm, then all green lines are displayed on the radar. On the other hand, if we place an object within the range of 40cm, then the sensor detects the object and that is indicated by the red lines on the radar.



#### ❖ **MISSILE IDENTIFICATION BY LED:**

Detect any object that comes in the range of this System with ultrasonic sensor and Arduino. The missile range can be identified by LED arrangement.

#### ❖ **AUTOMATIC PLANT WATERING:**

In this project, a soil moisture sensor is the main component. The soil moisture sensor will be used to measure the moisture level in the soil.

This project, works by detecting dryness in the soil, using a soil moisture sensor and then switching ON the mini water pump, the water then starts flowing from the water storage to the Flowerpot .It will be turned OFF after a certain amount of delay, set via potentiometer ,once it detects wetness inside the pot.



We concluded on the 17<sup>th</sup> of May ,2024 with a Grand Closing Ceremony of the Summer Camp, followed by an Exhibition which was graced by our Vice-Principal (Secondary), Ms.B. Nagaveena,

Vice-Principal (Senior-Secondary) Ms.B. Vijayalakshmi, Head-Mistress (Primary), Ms.K.C.Srivani, and Head-Mistress(Pre-Primary), Ms.K.Vijaya Durga.

