



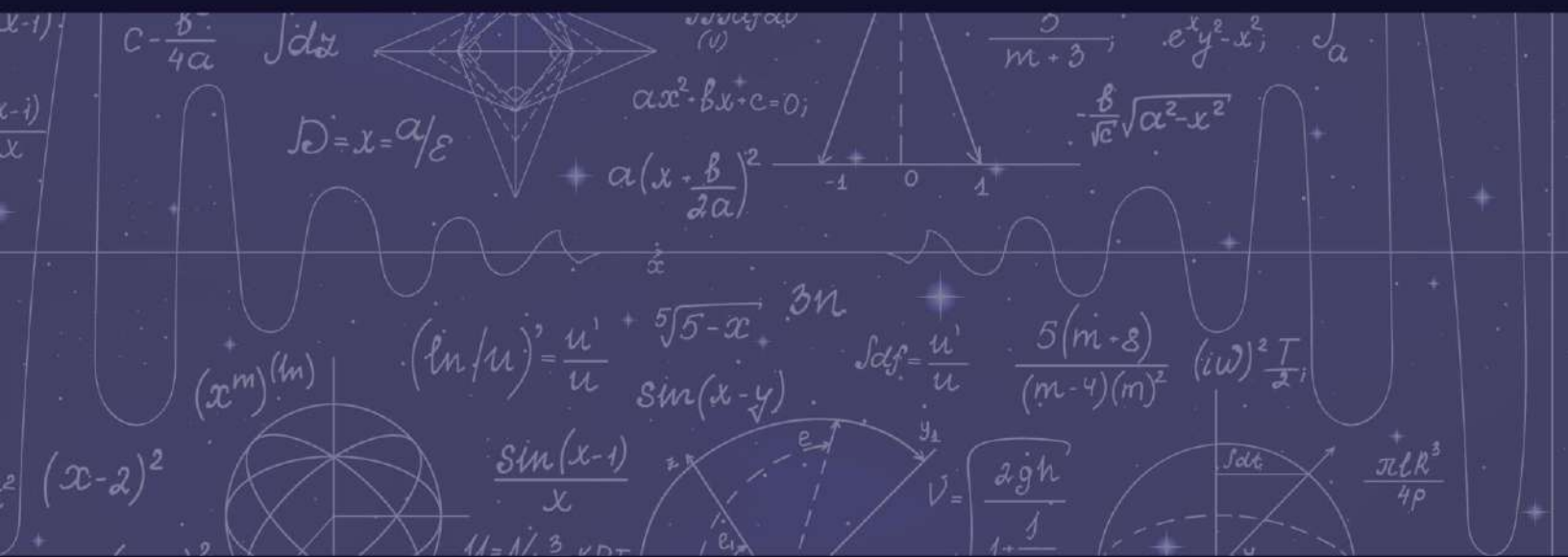
**Government of Puducherry.**

**Department of Science, Technology and Environment**

**Puducherry Council for Science and Technology.**

**Dr. Abdul Kalam Science Centre and Planetarium**

**Report on the Activities of the Innovation Hub – August 2023**



**DEPARTMENT OF SCIENCE, TECHNOLOGY AND ENVIRONMENT  
PUDUCHERRY COUNCIL FOR SCIENCE AND TECHNOLOGY  
DR. ABDUL KALAM SCIENCE CENTRE AND PLANETARIUM**

**Activity Report of the Innovation Hub for the Month of August 2023**

Students did basic science projects under the subject of Physics, Chemistry, Bio-science, Mathematics and Robotics.

The name of the Science experiments which is done by the Innovation Hub students such as Smart Watch, pH Meter Calculation, Chemistry Clock, Traffic light, as below.



## **AUGUST MONTH ACTIVITY - I**

Name of the Activity : Lecture-cum- Demonstration - Joy of Chemistry

Class Take on : 06-08-2023.



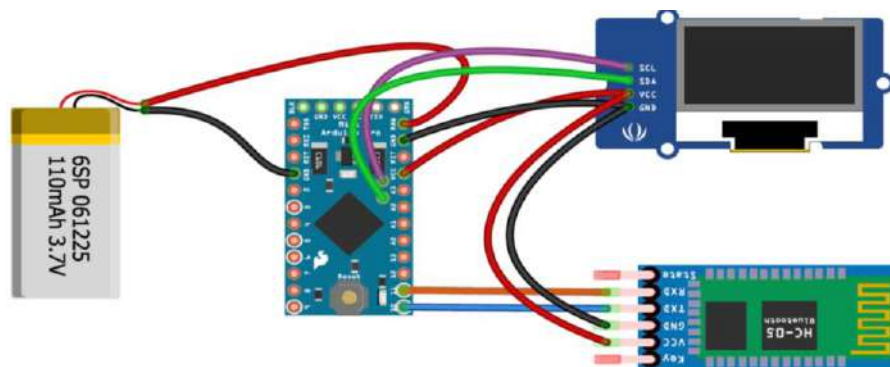
Objective of the Actives :

The Lecture – Cum – Demonstration on the Joy of Chemistry by the Guest Lecturer Mr. Balagurunathan. From this our students came to know the basic principle of Chemistry and their reaction of the Chemicals on this by the demonstration class.

## AUGUST MONTH ACTIVITY - II

Name of the Activity : Smart Watch (Pets Smart Belt).

Class Take on : 13-08-2023.



Objective of the Actives :

Pet owners couldn't keep regular track of the health of their pets, hence many pets die because of not getting appropriate treatment at the right time.

## **AUGUST MONTH ACTIVITY - III**

Name of the Activity : Chandrayaan-3

Class Take on : 13.08.2023



### **Objective of the Activities:**

In this class students learnt about Chandrayaan-3 and how it will work and the fuel used, project cost, failure of Chandrayaan-2 and time to reach the lunar surface

## **AUGUST MONTH ACTIVITY - IV**

Name of the Activity : pH Meter

Class Take on : 13.08.2023



### **Objective of the Activities:**

By handling the pH meter, students came to know about the solutions of pH values. By knowing the pH values they can identify the type of solutions whether it is acid, base or neutral. Here five different solutions (Ammonium Chloride, Magnesium Hydroxide, Sodium Bicarbonate, Acetic acid and water) were tested using pH meter and the obtained values are noted.

## AUGUST MONTH ACTIVITY –V

Name of the Activity : Chemistry Traffic Light.

Class Held on : 13-08-2023.



### Objective of the Activities:

The experiment involves changing colours with an indicator - indigo carmine in an alkaline solution of glucose. The alkaline solution of glucose is poured into a solution of indigo carmine, and we observe a gradual change of colour blue - green - red - yellow. We can reverse the reaction simply by shaking the solution.

## **AUGUST MONTH ACTIVITY - VI**

**Name of the Activity** : Chemistry Clock

**Class Held on** : 13-08-2023



### **Objective of the Activities:**

A Chemistry clock (or clock reaction) is a complex mixture of reacting chemical compounds in which the onset of an observable property (discoloration or coloration) occurs after a predictable induction time due to the presence of clock species at a detectable amount. These activities are mainly used to measure the time by changing of colours of the solutions.

## **AUGUST MONTH ACTIVITY - VII**

Name of the Activity : Archimedes Principle

Class Take on : 20-08-2023



Objective of the Activities:

From this activity students can come to know about Archimedes Principle. It explained a body at rest in a fluid is acted upon by a force pushing upward called the buoyant force, which is equal to the weight of the fluid that the body displaces. Students done a practical demonstrations immersing air balloon on water by this activity they came to know the working principals of Ships, Submarines, Hot Air balloons and Hydrometers.

## **AUGUST MONTH ACTIVITY - VIII**

Name of the Activity : How to Use Digital Multi Meter.

Class Take on : 27-08-2023.



Objective of the Activities:

By this activity the students can effectively learn how to use the Digital Multi Meter. A digital multimeter is a test tool used to measure two or more electrical values—principally voltage (volts), current (amps) and resistance (ohms) this units can be measured exactly by the multi meter so we can use the electrical and electronics components properly and rectify the error easily.

## **Students Visit to Innovation Hub**

During the Month of August more than 3185 Students Visited Innovation Hub from different schools of Puducherry. The students were informed about the various activities of the Innovation Hub.

