



**Monthly Report
Of
Innovation Hub
Arunachal Pradesh Science Centre
For August 2021**

**Submitted to:
Innovation Cell
National Council of Science Museums
Ministry of Culture, Govt. of India
33, BLOCK-GN, SECTOR-5
Bidhan Nagar, Kolkata, 700091**



**Submitted by:
Arunachal Pradesh Science Centre
A.P State Council for Science & Technology
Department of Science & Technology
Government of Arunachal Pradesh
IG – Park, Itanagar - 791111**

A Month-Long Arduino Robotic Workshop

An online cum hands on Arduino robotic workshop is organized. Workshop for first batch began on 25th august 2021. All the participants were provided with a free robotic kit for easy learning from home to maintain proper Covid Protocol.

This workshop aims to create interest in the young minds about Arduino and Robotics.

- To understand what an Arduino is and how it works
- To learn how to use an Arduino safely
- To Program Arduino using code in the Arduino IDE (Integrated Development Environment)
- To understand best practice & concepts for programming and prototyping
- To use a wide variety of hardware and components and prototype projects using a breadboard
- To help them create their own innovative project with Arduino.

The entire program was broadcasted live on our YouTube Channel-Innovation Hub APSCS&T. Workshop for first batch was concluded on 5th September 2021. Registration for next batch is already full and will begin shortly.

Total participants:16

75
Azadi Ka
Amrit Mahotsav

HANDS ON
ARDUINO
ROBOTICS
WORKSHOP

Agenda

- 1: Introduction to Robotics & AI
- 2: Basic Electronic
- 3: Introduction to Arduino
- 4: Arduino Programming
- 5: Arduino Project

Date: 25th August 2021
Time: 2.30 pm onwards

Zoom Link will be shared in the whatsapp group

NOTE: PREPARATORY WORKSHOP FOR ARDUINO ROBOTIC COMPETITION TO BE HELD IN THE MONTH OF DECEMBER 2021
INNOVATION HUB, ARUNACHAL PRADESH SCIENCE CENTRE ,ITANAGAR
9366058090/8755165988

What can ROBOTS do ?

Repetitive jobs that are boring, stressful, or labor-intensive for humans

Welding Robot

Participants (16): Anunachal Prades... (Host, me), INNOVATION HUB MENTOR, Anshu Bhattacharjee, Bengia Ama, Danyak Ado(DIT-CERSD), gito, Joram Namu, Mainak Das, Mui susi, Ojido perma, Priyanshu Kumar, Sajandeep Kar, Tabuk Taggu, Tagu Ikhs, Vaibhav Kumar, Kayam.

25th August Introduction to Arduino

Micro-Controller

A **microcontroller** is a small and low-cost microcomputer, which is designed to perform the specific tasks of embedded systems like displaying microwave's information, receiving remote signals, etc.

The general microcontroller consists of the processor, the memory (RAM, ROM, EPROM), Serial ports, peripherals (timers, counters), etc.

Use of Micro controller

- Mobile Phones
- Automobile
- Toys
- Household appliances
- Digital camera
- Smart watches
- Mp3 players etc.

ATmega SAM4L

Participants: ihub mentor, ihub mentor, Innovation hub mentor, Gito, Geo, Tabuk Taggu.

27th August: Micro controller



29th August: Assembling of Robotic Car

Individual membership	62
Institutional membership	03

Total Program Participants	:16
General total visitor	:0
Cumulative total visitor	:14869