



# AJ INSTITUTE OF ENGINEERING & TECHNOLOGY

A Unit of Laxmi Memorial Education Trust®

(Approved by AICTE, New Delhi, Affiliated to Visvesvaraya Technological University, Belgaavi)

Date: 24-03-2023

From,  
Mr. Manjukiran  
Assistant Professor  
Department of ECE  
A.J. Institute of Engineering and Technology, Mangaluru

To,  
The Principal  
A.J. Institute of Engineering and Technology, Mangaluru

Respected Sir,

**Sub: Seeking permission to conduct Workshop on “Basics of Arudino Programming”**

We are planning to conduct Workshop on “Basics of Arudino Programming” on 28-03-2023 for high school students of SDPT Kateel by first and second year Engineering Students. In this session, engineering students will give information about working of Arduino and interfacing of different sensors and Arduino. I request you to grant permission for the same.

Thanking you,

  
Staff Coordinator  
24/3/23

Mr. Manjukiran

  
Principal

**Principal**  
**A.J. Institute of Engineering & Technology**  
Mangaluru - 575 006



# AJ INSTITUTE OF ENGINEERING & TECHNOLOGY

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Date: 28.03.2023

## Report on Workshop on “Basic of Arduino Programming” for high School Students of SDPT, Kateel

Name of the Program:	Basic of Arduino Programming	Program Dates & Timings:	28.03.2023 10 am – 4 pm			
Name & Details of the Resource Person:	Mr. Suhandas	Mr. Manjukiran				
Organized by (Clubs/ Dept.)	ECE	In Association with (clubs)	IEEE			
Number of Participants	32	Students	32	Faculty	0	
Program Outcome (PO) Mapping	PO1, PO2, PO9					
Coordinators	Mr. Manjukiran					

### About the Program:

The Aim of the event was to teach the Basics of Arduino Programming for high School Students of SDPT, Kateel.

In the first session of the workshop, the basics of Microcontroller, Different Types of Arduino available and different application of it was explained. Workshop Mainly Focused on usage of Arduino UNO. Students were able to identify different pins in the Arduino UNO and usage of each Pins.

Second and Third Sessions were focused on hands-on Sessions. Initially Participants were asked to write a program to blink a LED, followed by series of LED. In the third Session Interfacing of Different was taught and students were able to Interface Temperature, Moisture, Gas, Rain Detector etc Successfully.

**Objectives:** The program Basics of Arduino Programming enable students/ faculty to

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- To Know the working of Arduino
- To Interface Different Sensors to Arduino

**Outcomes:** On successful completion of program of this lecture/ technical talk/workshop the student should able to:

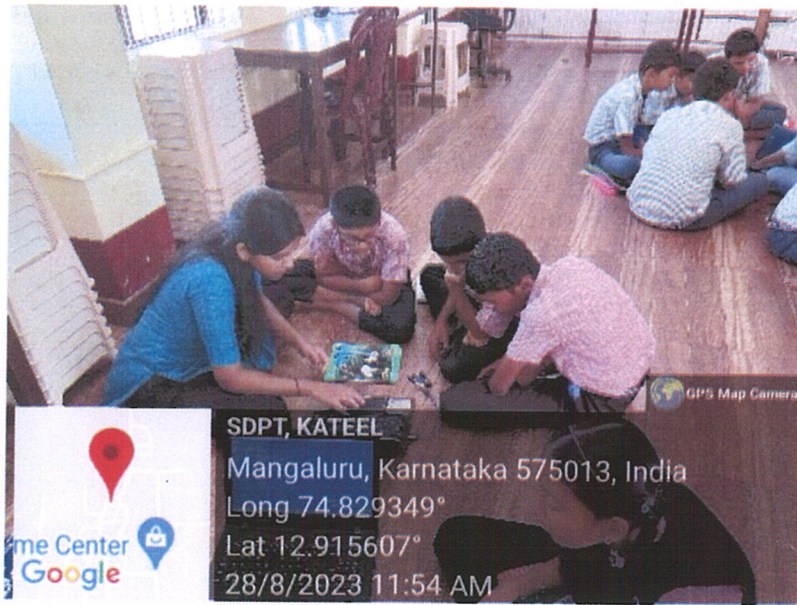
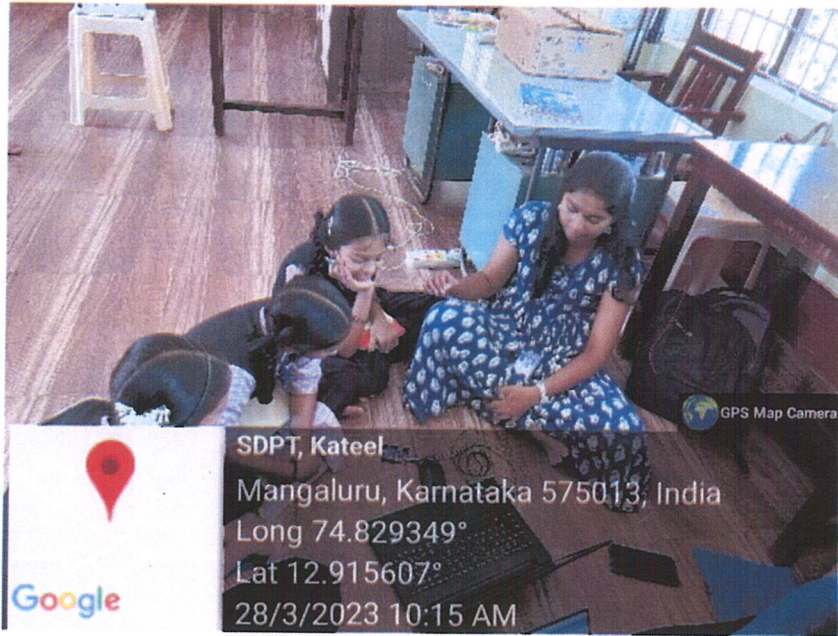
1. Explain working of Arduino
2. Interface Different Sensors to Arduino

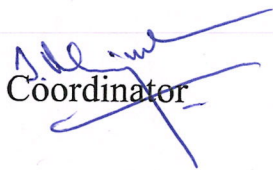
**Articulation Matrix:**

Course Outcomes	Program Outcomes											
	1	2	3	4	5	6	7	8	9	10	11	12
1	2	2							2			
2	2	2							2			
3	2	2							2			
Average	2	2							2			

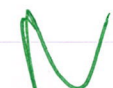
**Photos:**





  
Coordinator

  
HOD

  
Principal  
Principal  
A.J. Institute of Engineering & Technology  
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**Shree Durgaparameshwari Temple Pre University College Kateel  
Mangalore -574 148.**

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## Attendance Certificate

This is to certify that Mr. Manju Kiran Asst.Professor, Dept.of ECE of AJIET has conducted workshop on Internet of Things held at Atal Tinkering Lab of SDPT PU College Kateel on 28.03.2023 along with their team.

*Manju Kiran*

*M*  
Principal  
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SRI DURGAPARAMESHWARI TEMPLE  
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Ref: SDPT/ATL/2022-23/2

Date: 28-3-2023

## Acknowledgement of gratitude

To

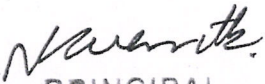
Manju Kiran  
Assistant Professor  
Department of ECE  
AJIET Mangalore


Respected sir

We express our deepest gratitude to you for enhancing and encouraging our students' skill development through your workshop on Internet of Things on behalf of IIC cell of AJIET

Thank you

Yours faithfully

  
PRINCIPAL  
Director & Principal  
S.D.P.T.P.U. COLLEGE  
Atal Bunkering Lab.

  
Principal  
A.J. Institute of Engineering & Technology  
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