

**ATHARVA EDUCATIONAL TRUST'S**  
**ATHARVA COLLEGE OF ENGINEERING**

(Approved by AICTE, Recognized by Government of Maharashtra  
 & Affiliated to University of Mumbai - Estd. 1999 - 2000)  
 Department of Electronics and Telecommunication

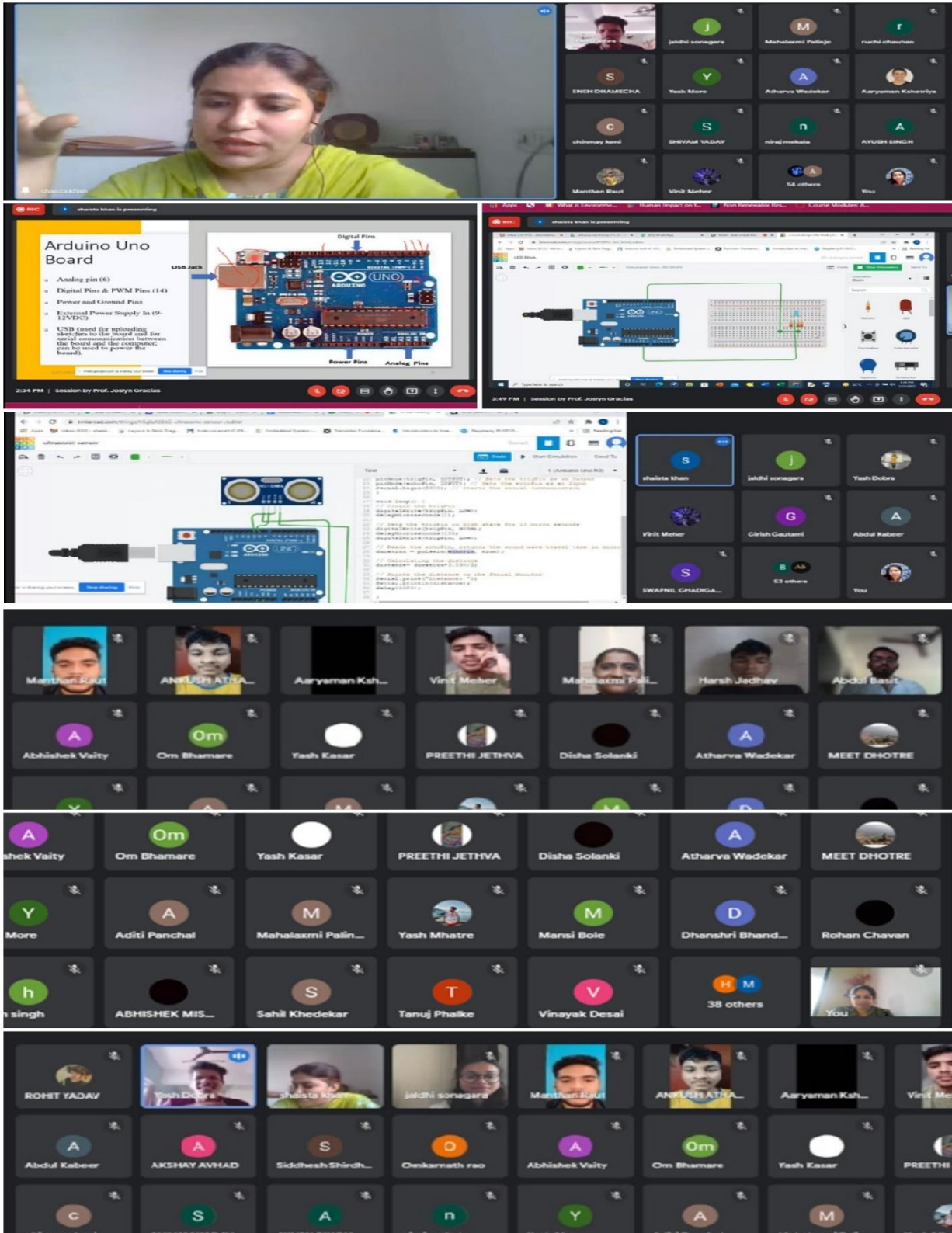
**Report for Workshop**

<b>Event Name</b>	2 Day Workshop in association with IETE-SF-ACE
<b>Centre (name)</b>	IETE-Mumbai
<b>Venue (College/Institute)</b>	Atharva College of Engineering
<b>Date &amp; Time</b>	25 <sup>th</sup> -26 <sup>th</sup> February 2022.
<b>Chief Guest</b>	Workshop Facilitator: Prof. Shaista Khanam Coordinator VCET Texas instruments Innovation Lab, Member of Executive Committee IETE-M
<b>Topic of Chief Guest Speech &amp; Highlights (Max. 25 words)</b>	Title: “ <b>ARDUINO- Fundamentals to Implementation</b> ”  <ol style="list-style-type: none"> <li>1. To make students acquainted with fundamentals of Arduino and raspberry Pi</li> <li>2. To make students understand and interface sensor and actuators with Arduino and Raspberry pi.</li> <li>3. To understand and apply knowledge gained to provide solution to a given real life problem.</li> </ol>
<b>Important dignitaries attended</b>	I/c HOD-EXTC Prof. Mahalaxmi Palinje,
<b>Brief Report including above information (Max. 200 words for Centres/ Sub-Centres&amp;75 words for ISFs)</b>	Department of Electronics and Telecommunication Engineering, in association with IETE-ACE SF under IETE-M OSCILLATIONS 2022 successfully organized the 2 Day Hands On Online Workshop for the SE students on the 25 <sup>th</sup> -26 <sup>th</sup> February 2022. The IETE ACE Student Forum supported the event with the hosting and digital designing. The facilitator delivered an excellent session on Fundamentals of Arduino on Day 1 along with Hands on session on Interfacing of LED, Interfacing of Tri color LED , Interfacing of switch and Interfacing of 7 segments Display mobile app development. Overview of Sensors and Actuators were also given along with Hands on session on Interfacing of LDR, Interfacing of ultrasonic sensor, and Interfacing of motors. Fundamentals of Raspberry Pi were explained on Day2 along with Software and Hardware Requirement, Basics of python for Raspberry pi , Connecting to the outside World with GPIO. Facilitator also suggested Project ideas (Arduino and raspberry pi) Theparticipants shared their feedback and expressed their appreciation for the informative webinar. 91 students participated in the session. E certificates were provided to all participants

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Photographs (Max. 3) with short captions  
( Resolution : 300 dpi, format: jpg)



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The screenshot displays a Google Meet interface with a grid of 28 participants. The participants' names and initials are visible in their respective tiles. Below the grid, a shared presentation slide is visible. The slide is titled "Arduino Analog Input" and features a graph showing a sine wave. The graph has labels for "measured voltage" and "reference voltage". Below the graph, there are three bullet points:

- Resolution: the number of different voltage levels (i.e., states) used to describe an input signal
- The Arduino uses 1024 states (10 bits)
- Smallest measurable voltage change is  $5V/1024$  or  $4.8\text{ mV}$
- Maximum sample rate is 10,000 times per second

The bottom of the screen shows the meeting controls, including a search bar, a list of participants, and a "You" tile.

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